## SIEMENS

## Data sheet

## US2:84DUD95BMF

Two 28A circuit breakers, Enclosure NEMA type 1, Indoor general purpose           product bread name         Class 84           design of the product         Duplex controller with two MCPs without alternator           special product feature         ESP200 verifoad relay           @design of the product         SP200 verifoad relay           @design of the product feature         ESP200 verifoad relay           @design of the product feature         F           weight [b]         70 lb           Height X Widh x Depth [n]         S4 × 25 × 8 in           touch protection against electrical shock         NA for enclosed products           installation altitude [1] at height above sea level maximum         6660 ft           ambient temperature [TF]		Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 5.5-22A, 110V 50Hz / 120V 60Hz coil, Combination type,
design of the product         Duplex controller with two MCPs without alternator           special product feature         ESP200 svertoad relay           (Genoral technical data         70 lb           weight [b]         70 lb           Height X Mith X Depth [in]         34 × 25 × 8 in           touch protection against electrical shock         NA for enclosed products           installation altitude [i] at height above sea level maximum         6560 ft           ambient temperature [rF]         -22 +149 °F           • during storage         -22 +140 °F           • during storage         -30 +65 °C           • during operation         20 +40 °C           country of origin         USA           Hosspower ratings         yielded mechanical performance [hp] for 3-phase AC motor           • el 20/208 V rated value         3 hp           • el 20/208 V rated value         3 hp           • el 20/208 V rated value         3 hp           • el 400480 V rated value         10 hp           contactor         NEMA controller size 1           number of NO contacts for main contacts         3           operating vollage for main current circuit at AC at 60 Hz         600 V           maximum         8           operating vollage of the control supply volage		Two 25A circuit breakers, Enclosure NEMA type 1, Indoor general purpose use
special product feature         ESP200 overload relay           Centract technical data         Contract           weight [b]         70 lb           Height X Widh x Depth [in]         34 × 25 × 8 in           touch protection against electrical shock         NA for enclosed products           installation alliable dig th height above sea level maximum         6560 ft           ambient temperature [F]         - 22 +149 °F           • during operation         +05 °C           • during operation	product brand name	Class 84
Ceneral achical data       70 lb         Weight Ib]       70 lb         Height X Widh X Deph [in]       54 × 25 × 8 in         Iouch protection against electrical shock       NA for enclosed products         instalation altiude [i] at height above sea level maximum       6660 ft         ambient temperature [F]       • (uring storage         • during operation       -4 +149 °F         • during operation       -4	design of the product	Duplex controller with two MCPs without alternator
weight [b]         70 lb           Height x Widh x Depth [in]         94 × 25 × 8 in           tuck protection against electrical shock         NA for enclosed products           installation altitude [ft] at height above sea level maximum         6560 ft           ambient temperature [Ft]         -           • during storage         -22 +149 °F           • during storage         -30 +65 °C           • during storage         -30 +65 °C           • during storage         -30 +40 °C           country of origin         USA           Horsepower ratings         -20 +40 °C           yielded mechanical performance [hp] for 3-phase AC motor         -           • at 200208 V rated value         3 hp           • at 200208 V rated value         10 hp           • at 450/480 V rated value         10 hp           contactor         NEMA controller size 1           number of NC contacts for main contacts         3           operating voltage for main contacts         3           operating voltage for main contacts         1           number of NC contacts at contactor for auxiliary contacts         1           number of NC contacts at contactor for auxiliary contacts         1           number of NC contacts at contactor for auxiliary contacts         1 </td <td>special product feature</td> <td>ESP200 overload relay</td>	special product feature	ESP200 overload relay
Height XWith x Depth [in]     34 × 25 × 8 in       touch protection against electrical shock     NA for enclosed products       installation altidude [ft] at height above sea level maximum     660 ft       ambient temperature ['F]     -22 +149 'F       • during storage     -22 +149 'F       • during storage     -30 +65 'C       • during operation     -20 +40 'F       ambient temperature     -30 +65 'C       • during operation     -20 +40 'C       country of origin     USA <b>Horsepower ratings</b> -30 +65 'C       yielded mechanical performance [tip] for 3-phase AC motor     -4 +104 'F       • at 200208 V rated value     3 hp       • at 200208 V rated value     3 hp       • at 200408 V rated value     3 hp       • at 40:400 V rated value     10 hp       • at 575/600 V rated value     10 hp       size of contactor     NEMA controller size 1       number of NO contacts for main contacts     3       operating voltage for main current circuit at AC at 60 Hz     maximum       maximum     800 V       ortactur     10 hp       contacts at contactor for auxiliary contacts     1       number of NO contacts at contactor for auxiliary contacts     1       number of NO contacts at contactor for auxiliary contacts     1	General technical data	
touch protection against electrical shock         NA for enclosed products           installation altitude [I] at height above sea level maximum         6560 ft           ambient temperature [F]         -           • during storage         -22 +149 "F           • during operation         -           - during operation         -           • et 202030 V rated value         3 hp           • at 220/230 V rated value         10 hp           • et 375/600 V rated value         10 hp           • et 375/600 V rated value         10 hp           • operating voltage for main current circuit at AC at 60 Hz         anamem           maximum         600 V           • et 362/600 V rated value         27 A           operating voltage or main current circuit at AC at 60 Hz           maximum         <	weight [lb]	70 lb
installation altitude [ft] at height above sea level maximum       6560 ft         ambient temperature [FF]	Height x Width x Depth [in]	34 × 25 × 8 in
ambient temperature [*F] <ul> <li>during storage</li> <li>22+149 *F</li> <li>during operation</li> <li></li></ul>	touch protection against electrical shock	NA for enclosed products
• during storage     -22 +149 °F       • during operation     -4 +104 °F       ambient temperature     -30 +65 °C       • during operation     -20 +40 °C       country of origin     USA <b>Hore provide Vielded mechanical performance (hp) for 3-phase AC motor</b> • at 200/230 V rated value     3 hp       • at 200/230 V rated value     3 hp       • at 200/230 V rated value     3 hp       • at 460/480 V rated value     10 hp       • at 460/480 V rated value     10 hp       • at 676/000 V rated value     10 hp       • at 676/000 V rated value     10 hp       • operating voltage for main contacts     3       operating voltage for main contacts     3       operating voltage for auxiliary contacts     10000000       Vipical     Auxiliary contacts       number of NC contacts at contactor for auxiliary contacts     0       number of NC contacts at contactor for auxiliary contacts     1       number of NC contacts at contactor for auxiliary contacts     1       stand of auxiliary contacts of contactor according to UL     10A@600VAC (A600), 5A@600VDC (P600)       Contactor       • auxiliary contacts of contactor according to UL     10A@600VAC (A600), 5A@600VDC (P600)        0, 0 V	installation altitude [ft] at height above sea level maximum	6560 ft
	ambient temperature [°F]	
amblent temperature       -30 +65 °C         • during storage       -30 +65 °C         • during operation       -20 +40 °C         country of origin       USA         Horsepower ratings       yielded mechanical performance [hp] for 3-phase AC motor         • at 200/208 V rated value       3 hp         • at 200/208 V rated value       3 hp         • at 200/208 V rated value       10 hp         • at 460/480 V rated value       10 hp         • at 75/600 V rated value       10 hp         Contactor       NEMA controller size 1         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       27 A         mechanical service life (operating cycles) of the main contacts       10000000         typical       10000000         typical       10000000         typical       0         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts at contactor for auxiliary contacts       1         number of NO contacts	during storage	-22 +149 °F
	during operation	-4 +104 °F
• during operation       -20 +40 °C         country of origin       USA         Horsepower ratings	ambient temperature	
country of origin     USA       Horsepower ratings     yielded mechanical performance [hp] for 3-phase AC motor     3 hp       • at 200/208 V rated value     3 hp       • at 200/208 V rated value     3 hp       • at 460/480 V rated value     10 hp       • at 460/480 V rated value     10 hp       • at 52/020 V rated value     10 hp       • at 55/600 V rated value     10 hp       Contactor     size of contactor       size of contactor     NEMA controller size 1       number of NO contacts for main contacts     3       operating voltage for main current circuit at AC at 60 Hz     600 V       maximum     operating voltage for main current circuit at AC at 60 Hz       mombarium     600 V       operating voltage for main current circuit at AC at 60 Hz       maximum     10000000       Vipical     10000000       Vipical     10000000       Vipical     0       number of NC contacts at contactor for auxiliary contacts     1       number of NC contacts at contactor for auxiliary contacts     1       number of NO contacts at contactor for contacting to UL     10A@600VAC (A600), 5A@600VDC (P600)       Coll     Vipe of voltage of the control supply voltage     AC       control supply voltage     0     0 V       • at AC at 50 Hz rated value     100	during storage	-30 +65 °C
Horsepower ratings         yielded mechanical performance [hp] for 3-phase AC motor         • at 220/230 V rated value       3 hp         • at 220/230 V rated value       3 hp         • at 220/230 V rated value       10 hp         • at 460/480 V rated value       10 hp         • at 575/600 V rated value       10 hp         Contactor         NEMA controller size 1         number of NO contacts for main current circuit at AC at 60 Hz         operating voltage for main current circuit at AC at 60 Hz         mechanical service life (operating cycles) of the main contacts       10000000         typical         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       0         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts at contactor for auxiliary contacts       0         number of NC contacts at contactor for auxiliary contacts       1         number of NC contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       Upper of voltage of the control supply voltage       AC         control supply voltage       0 0 V       0 0 V       at AC at 50 Hz rated value       110 110 V       at AC at 50 Hz rated value       120 120 V <td< td=""><td>during operation</td><td>-20 +40 °C</td></td<>	during operation	-20 +40 °C
yielded mechanical performance [hp] for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>bp</li> </ul> <li>contactor</li> <li>size of contactor number of NO contacts for main contacts</li> <li>operating voltage for main current circuit at AC at 60 Hz</li> <li>maximum</li> <li>operational current at AC at 600 V rated value</li> <li>27 A</li> <li>mechanical service life (operating cycles) of the main contacts</li> <li>typical</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC auxiliary contacts of contactor according to UL</li> <li>10A@600VAC (A600), 5A@600VDC (P600)</li> <li>Coil</li> <li>type of voltage of the control supply voltage</li> <li>at DC rated value</li> <li>at</li>	country of origin	USA
• at 200/208 V rated value         3 hp           • at 220/230 V rated value         3 hp           • at 460/480 V rated value         10 hp           • at 675/600 V rated value         10 hp           • at 575/600 V rated value         10 hp           Contactor         NEMA controller size 1           number of NO contacts for main contacts         3           operating voltage for main current circuit at AC at 60 Hz         600 V           maximum         0           operational current at AC at 600 V rated value         27 A           mechanical service life (operating cycles) of the main contacts typical         10000000           Multilary contact         10000000           Auxiliary contacts at contactor for auxiliary contacts         0           number of NC contacts at contactor for auxiliary contacts         1           number of total auxiliary contacts maximum         8           contact rating of auxiliary contacts according to UL         10A@600VAC (A600), 5A@600VDC (P600)           Coil         -           type of voltage of the control supply voltage         AC           control supply voltage         0           • at DC rated value         0 0 V           • at DC rated value         120 120 V           holding power at AC minimum <td< td=""><td>Horsepower ratings</td><td></td></td<>	Horsepower ratings	
• at 220/230 V rated value         3 hp           • at 460/480 V rated value         10 hp           • at 575/600 V rated value         10 hp           Contactor         10 hp           Size of contacts for main contacts         3           operating voltage for main current circuit at AC at 60 Hz         600 V           maximum         0perating voltage for main current circuit at AC at 60 Hz           mechanical service life (operating cycles) of the main contacts         10000000           typical         10000000           Auxiliary contact         0           number of NC contacts at contactor for auxiliary contacts         0           number of NC contacts at contactor for auxiliary contacts         1           number of NC contacts at contactor for auxiliary contacts         1           number of NC contacts at contactor for auxiliary contacts         1           number of NG contacts at contactor for auxiliary contacts         1           number of NG contacts at contactor according to UL         10A@600VAC (A600), 5A@600VDC (P600)           Coil	yielded mechanical performance [hp] for 3-phase AC motor	
• at 460/480 V rated value     10 hp       • at 575/600 V rated value     10 hp       Contactor     10 hp       size of contacts     3       operating voltage for main contacts     3       operating voltage for main current circuit at AC at 60 Hz     600 V       maximum     600 V       operating voltage for main current circuit at AC at 60 Hz     7 A       mechanical service life (operating cycles) of the main contacts typical     10000000       Auxiliary contact     10000000       number of NC contacts at contactor for auxiliary contacts     0       number of NC contacts at contactor for auxiliary contacts     1       number of NC contacts at contactor for auxiliary contacts     1       number of total auxiliary contacts of contactor according to UL     10A@600VAC (A600), 5A@600VDC (P600)       Coll     type of voltage of the control supply voltage     AC       control supply voltage     0 0 V       • at AC at 60 Hz rated value     120 120 V       holding power at AC minimum     8.6 W       apparent pick-up power of magnet coil at AC     218 VA       apparent pick-up power of magnet coil at AC     25 VA       operating range factor control supply voltage rated value of magnet coil related value of magnet coil related value of magnet coil related to the input     50 %	• at 200/208 V rated value	3 hp
• at 575/600 V rated value         10 hp           Contactor         size of contactor           number of NO contacts for main contacts         3           operating voltage for main current circuit at AC at 60 Hz         600 V           maximum         600 V           operational current at AC at 600 V rated value         27 A           mechanical service life (operating cycles) of the main contacts         10000000           Vypical         10000000           Auxiliary contact         0           number of NC contacts at contactor for auxiliary contacts         0           number of NC contacts at contactor for auxiliary contacts         1           number of NC contacts at contactor for auxiliary contacts         1           number of NC contacts of contactor according to UL.         10A@600VAC (A600), 5A@600VDC (P600)           Coil         type of voltage of the control supply voltage         AC           control supply voltage         0 0 V         • at AC at 50 Hz rated value         110 110 V           • at AC at 50 Hz rated value         120 120 V         • bolding power at AC minimum         8.6 W           apparent pick-up power of magnet coil at AC         218 VA         apparent pick-up power of magnet coil at AC           apparent holding power of magnet coil at AC         25 VA         0.85 1.1     <	• at 220/230 V rated value	3 hp
Contactor       NEMA controller size 1         number of NO contacts for main cortacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       600 V         operational current at AC at 600 V rated value       27 A         mechanical service life (operating cycles) of the main contacts       10000000         typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contacts at contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       1         type of voltage of the control supply voltage       AC         control supply voltage       0         • at AC at 50 Hz rated value       0         • at AC at 50 Hz rated value       100         • at AC at 50 Hz rated value       120         • holding power at AC minimum       8.6 W         apparent pick-up power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of       0.85 1.1         magnet coil       0.85 1.1	• at 460/480 V rated value	10 hp
size of contactor       NEMA controller size 1         number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       operational current at AC at 600 V rated value       27 A         operating current at AC at 600 V rated value       27 A         mechanical service life (operating cycles) of the main contacts       10000000         typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts maximum       8         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil	• at 575/600 V rated value	10 hp
number of NO contacts for main contacts       3         operating voltage for main current circuit at AC at 60 Hz       600 V         maximum       27 A         mechanical service life (operating cycles) of the main contacts       10000000         typical       10000000         Auxiliary contact       0         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       1         type of voltage of the control supply voltage       AC         control supply voltage       0         • at DC rated value       0 0 V         • at AC at 50 Hz rated value       110 110 V         • at AC at 60 Hz rated value       120 120 V         holding power at AC minimum       8.6 W         apparent holding power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of       0.85 1.1         percental drop-out voltage of magnet coil related to the input       50 %	Contactor	
operating voltage for main current circuit at AC at 60 Hz         600 V           maximum         operational current at AC at 600 V rated value         27 A           mechanical service life (operating cycles) of the main contacts typical         10000000           Auxiliary contact         10000000           number of NC contacts at contactor for auxiliary contacts         0           number of NO contacts at contactor for auxiliary contacts         1           number of total auxiliary contacts maximum         8           contact rating of auxiliary contacts of contactor according to UL         10A@600VAC (A600), 5A@600VDC (P600)           Coil         1           type of voltage of the control supply voltage         AC           e at AC at 50 Hz rated value         0 0 V           • at AC at 60 Hz rated value         110 110 V           • at AC at 60 Hz rated value         120 120 V           holding power at AC minimum         8.6 W           apparent holding power of magnet coil at AC         25 VA           operating pacent holding power of magnet coil at AC         25 VA           operating range factor control supply voltage rated value of magnet coil         0.85 1.1	size of contactor	NEMA controller size 1
maximum       27 A         operational current at AC at 600 V rated value       27 A         mechanical service life (operating cycles) of the main contacts typical       10000000         Auxiliary contact       10000000         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts maximum       8         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       type of voltage of the control supply voltage         • at DC rated value       0 0 V         • at AC at 50 Hz rated value       110 110 V         • at AC at 60 Hz rated value       120 120 V         holding power at AC minimum       8.6 W         apparent pick-up power of magnet coil at AC       25 VA         operating factor control supply voltage rated value of       0.85 1.1         magnet coil       percental drop-out voltage of magnet coil related to the input	number of NO contacts for main contacts	3
mechanical service life (operating cycles) of the main contacts typical       10000000         Auxiliary contact       10000000         number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts maximum       8         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       1000000         type of voltage of the control supply voltage       AC         control supply voltage       00 V         • at AC at 50 Hz rated value       110110 V         • at AC at 60 Hz rated value       120120 V         holding power at AC minimum       8.6 W         apparent pick-up power of magnet coil at AC       218 VA         apparent holding power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of       0.85 1.1         percental drop-out voltage of magnet coil related to the input       50 %		600 V
typical         Auxiliary contact         number of NC contacts at contactor for auxiliary contacts         number of NO contacts at contactor for auxiliary contacts         number of total auxiliary contacts maximum         8         contact rating of auxiliary contacts of contactor according to UL         10A@600VAC (A600), 5A@600VDC (P600)         Coil         type of voltage of the control supply voltage         e at DC rated value         • at AC at 50 Hz rated value         10 0 V         • at AC at 60 Hz rated value         100 mover at AC minimum         8.6 W         apparent pick-up power of magnet coil at AC         apparent holding power of magnet coil at AC         belower of magnet coil related to the input	operational current at AC at 600 V rated value	27 A
number of NC contacts at contactor for auxiliary contacts       0         number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts maximum       8         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil       0         type of voltage of the control supply voltage       AC         control supply voltage       0 0 V         • at AC at 50 Hz rated value       110 110 V         • at AC at 60 Hz rated value       120 120 V         holding power at AC minimum       8.6 W         apparent pick-up power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of magnet coil       05 VA         operating range factor control supply voltage rated value of magnet coil       05 VA		1000000
number of NO contacts at contactor for auxiliary contacts       1         number of total auxiliary contacts maximum       8         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil         Control supply contacts of contactor according to UL         type of voltage of the control supply voltage         e at DC rated value       0 0 V         e at AC at 50 Hz rated value       110 110 V         e at AC at 60 Hz rated value       120 120 V         holding power at AC minimum       8.6 W         apparent pick-up power of magnet coil at AC       218 VA         apparent holding power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of magnet coil       0.85 1.1         percental drop-out voltage of magnet coil related to the input       50 %	Auxiliary contact	
number of total auxiliary contacts maximum       8         contact rating of auxiliary contacts of contactor according to UL       10A@600VAC (A600), 5A@600VDC (P600)         Coil          type of voltage of the control supply voltage       AC         control supply voltage       0 0 V         • at DC rated value       0 0 V         • at AC at 50 Hz rated value       110 110 V         • at AC at 60 Hz rated value       120 120 V         holding power at AC minimum       8.6 W         apparent pick-up power of magnet coil at AC       218 VA         apparent holding power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of magnet coil       0.85 1.1         percental drop-out voltage of magnet coil related to the input       50 %	number of NC contacts at contactor for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL10A@600VAC (A600), 5A@600VDC (P600)CoilACtype of voltage of the control supply voltage outrol supply voltage • at DC rated valueACcontrol supply voltage • at AC at 50 Hz rated value0 0 V• at AC at 50 Hz rated value110 110 V• at AC at 60 Hz rated value120 120 Vholding power at AC minimum8.6 Wapparent pick-up power of magnet coil at AC218 VAapparent holding power of magnet coil at AC25 VAoperating range factor control supply voltage rated value of 	number of NO contacts at contactor for auxiliary contacts	1
contact rating of auxiliary contacts of contactor according to UL10A@600VAC (A600), 5A@600VDC (P600)CoilACtype of voltage of the control supply voltage outrol supply voltage • at DC rated valueACcontrol supply voltage • at AC at 50 Hz rated value0 0 V• at AC at 50 Hz rated value110 110 V• at AC at 60 Hz rated value120 120 Vholding power at AC minimum8.6 Wapparent pick-up power of magnet coil at AC218 VAapparent holding power of magnet coil at AC25 VAoperating range factor control supply voltage rated value of magnet coil0.85 1.1percental drop-out voltage of magnet coil related to the input50 %	number of total auxiliary contacts maximum	8
Coil       AC         type of voltage of the control supply voltage       AC         control supply voltage       0 0 V         • at DC rated value       110 110 V         • at AC at 50 Hz rated value       120 120 V         holding power at AC minimum       8.6 W         apparent pick-up power of magnet coil at AC       218 VA         apparent holding power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of magnet coil       0.85 1.1         percental drop-out voltage of magnet coil related to the input       50 %		10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage• at DC rated value0 0 V• at AC at 50 Hz rated value110 110 V• at AC at 60 Hz rated value120 120 Vholding power at AC minimum8.6 Wapparent pick-up power of magnet coil at AC218 VAapparent holding power of magnet coil at AC25 VAoperating range factor control supply voltage rated value of magnet coil0.85 1.1percental drop-out voltage of magnet coil related to the input50 %		
control supply voltage0 0 V• at DC rated value0 0 V• at AC at 50 Hz rated value110 110 V• at AC at 60 Hz rated value120 120 Vholding power at AC minimum8.6 Wapparent pick-up power of magnet coil at AC218 VAapparent holding power of magnet coil at AC25 VAoperating range factor control supply voltage rated value of magnet coil0.85 1.1percental drop-out voltage of magnet coil related to the input50 %	type of voltage of the control supply voltage	AC
<ul> <li>at DC rated value</li> <li>at AC at 50 Hz rated value</li> <li>at AC at 60 Hz rated value</li> <li>110 110 V</li> <li>at AC at 60 Hz rated value</li> <li>120 120 V</li> <li>holding power at AC minimum</li> <li>8.6 W</li> <li>apparent pick-up power of magnet coil at AC</li> <li>218 VA</li> <li>apparent holding power of magnet coil at AC</li> <li>25 VA</li> <li>operating range factor control supply voltage rated value of magnet coil</li> <li>percental drop-out voltage of magnet coil related to the input</li> <li>50 %</li> </ul>		
<ul> <li>at AC at 50 Hz rated value</li> <li>at AC at 60 Hz rated value</li> <li>110 110 V</li> <li>at AC at 60 Hz rated value</li> <li>120 120 V</li> <li>holding power at AC minimum</li> <li>8.6 W</li> <li>apparent pick-up power of magnet coil at AC</li> <li>218 VA</li> <li>apparent holding power of magnet coil at AC</li> <li>25 VA</li> <li>operating range factor control supply voltage rated value of magnet coil</li> <li>percental drop-out voltage of magnet coil related to the input</li> <li>50 %</li> </ul>		0 0 V
• at AC at 60 Hz rated value120 120 Vholding power at AC minimum8.6 Wapparent pick-up power of magnet coil at AC218 VAapparent holding power of magnet coil at AC25 VAoperating range factor control supply voltage rated value of magnet coil0.85 1.1percental drop-out voltage of magnet coil related to the input50 %		
holding power at AC minimum8.6 Wapparent pick-up power of magnet coil at AC218 VAapparent holding power of magnet coil at AC25 VAoperating range factor control supply voltage rated value of magnet coil0.85 1.1percental drop-out voltage of magnet coil related to the input50 %		
apparent pick-up power of magnet coil at AC       218 VA         apparent holding power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of magnet coil       0.85 1.1         percental drop-out voltage of magnet coil related to the input       50 %		
apparent holding power of magnet coil at AC       25 VA         operating range factor control supply voltage rated value of magnet coil       0.85 1.1         percental drop-out voltage of magnet coil related to the input       50 %		
operating range factor control supply voltage rated value of magnet coil       0.85 1.1         percental drop-out voltage of magnet coil related to the input       50 %		
percental drop-out voltage of magnet coil related to the input 50 %	operating range factor control supply voltage rated value of	
voltage	percental drop-out voltage of magnet coil related to the input	50 %
ON-delay time 19 29 ms	ON-delay time	19 29 ms
OFF-delay time 10 24 ms	OFF-delay time	10 24 ms
Overload relay	Overload relay	
product function	product function	

a overload protection	Yes	
overload protection		
phase failure detection	Yes	
asymmetry detection	Yes	
ground fault detection	Yes	
• test function	Yes	
• external reset	Yes	
reset function	Manual, automatic and remote	
trip class	CLASS 5 / 10 / 20 (factory set) / 30	
adjustable current response value current of the current- dependent overload release	5.5 22 A	
tripping time at phase-loss maximum	3 s	
relative repeat accuracy	1%	
product feature protective coating on printed-circuit board	Yes	
number of NC contacts of auxiliary contacts of overload relay	1	
number of NO contacts of auxiliary contacts of overload relay	1	
operational current of auxiliary contacts of overload relay		
• at AC at 600 V	5 A	
• at DC at 250 V	1 A	
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)	
insulation voltage (Ui)		
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V	
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V	
Enclosure		
degree of protection NEMA rating of the enclosure	NEMA Type 1	
design of the housing	indoors, usable on a general basis	
Circuit Breaker		
type of the motor protection	Motor circuit protector (magnetic trip only)	
operational current of motor circuit breaker rated value	25 A	
adjustable current response value current of instantaneous short-circuit trip unit	55 180 A	
Mounting/wiring		
·	Vertical	
Mounting/wiring	Vertical Surface mounting and installation	
Mounting/wiring mounting position		
Mounting/wiring mounting position fastening method	Surface mounting and installation	
Mounting/wiring         mounting position       fastening method         fastening method       type of electrical connection for supply voltage line-side         type of connectable conductor cross-sections at line-side for	Surface mounting and installation Box lug	
Mounting/wiring         mounting position         fastening method         type of electrical connection for supply voltage line-side         type of connectable conductor cross-sections at line-side for         AWG cables single or multi-stranded	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)	
Mounting/wiring         mounting position         fastening method         type of electrical connection for supply voltage line-side         type of connectable conductor cross-sections at line-side for         AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C	
Mounting/wiring         mounting position         fastening method         type of electrical connection for supply voltage line-side         type of connectable conductor cross-sections at line-side for         AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material of the conductor for supply	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for           AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor cross-sections for AWG cables	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in	
Mounting/wiring         mounting position         fastening method         type of electrical connection for supply voltage line-side         type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material of the conductor for supply         type of electrical connection for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded         temperature of the conductor for load-side outgoing feeder	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG)	
Mounting/wiring         mounting position         fastening method         type of electrical connection for supply voltage line-side         type of connectable conductor cross-sections at line-side for         AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material of the conductor for supply         type of electrical connection for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         type of connectable conductor cross-sections for AWG cables         for load-side outgoing feeder         type of connectable conductor for load-side outgoing feeder         type of connectable conductor cross-sections for AWG cables         for load-side outgoing feeder single or multi-stranded         temperature of the conductor for load-side outgoing feeder         maximum permissible	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for           AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf·in] for load-side outgoing feeder           type of connectable conductor cross-sections for AWG cables           for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           tupe of connectable conductor for load-side outgoing feeder           tupe of connectable conductor for load-side outgoing feeder           tupe of the conductor for load-side outgoing feeder           tuperature of the conductor for load-side outgoing feeder           maximum permissible           material of the conductor for load-side outgoing feeder	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for           AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor cross-sections for AWG cables           for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor cross-sections for AWG cables           for load-side outgoing feeder single or multi-stranded           temperature of the conductor for load-side outgoing feeder           maximum permissible           material of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for           AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor cross-sections for AWG cables           for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of the conductor for load-side outgoing feeder           maximum permissible           material of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil           tightening torque [lbf-in] at magnet coil           tightening torque [lbf-in] at magnet coil	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf·in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf·in	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for           AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor cross-sections for AWG cables           for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of electrical connection for load-side outgoing feeder           type of electrical connection of magnet coil           temperature of the conductor for load-side outgoing feeder           maximum permissible           material of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil           tightening torque [lbf-in] at magnet coil           type of connectable conductor cross-sections of magnet coil for           AWG cables single or multi-stranded           temperature of the conductor at magnet coil maximum	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG)	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for           AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of electrical connection for load-side outgoing feeder           maximum permissible           material of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil           tightening torque [lbf-in] at magnet coil           type of connectable conductor cross-sections of magnet coil for           AWG cables single or multi-stranded           temperature of the conductor at magnet coil maximum	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for           AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of electrical connection of magnet coil           temperature of the conductor for load-side outgoing feeder           maximum permissible           material of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil           type of connectable conductor cross-sections of magnet coil for           AWG cables single or multi-stranded           temperature of the conductor at magnet coil maximum           permissible           material of the conductor at magnet coil maximum	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor for load-side outgoing feeder           type of electrical connection of magnet coil           temperature of the conductor for load-side outgoing feeder           maximum permissible           material of the conductor for load-side outgoing feeder           type of connectable conductor cross-sections of magnet coil           tightening torque [lbf-in] at magnet coil           type of connectable conductor at magnet coil maximum           permissible           material of the conductor at magnet coil maximum           permissible           material of the conductor at magnet coil           type of electrical connection at contactor for a	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf-in] for load-side outgoing feeder           type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded           temperature of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil           tightening torque [lbf-in] at magnet coil           type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded           temperature of the conductor at magnet coil maximum permissible           material of the conductor at magnet coil maximum permissible           material of the conductor at magnet coil maximum permissible           material of the conductor at magnet coil           type of electrical connection at contactor for auxiliary contacts           tightening torque [lbf-in] at contactor for auxiliary contacts           tightening torque [lbf-in] at contactor for auxiliary contacts	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in	
Mounting/wiringmounting positionfastening methodtype of electrical connection for supply voltage line-sidetype of connectable conductor cross-sections at line-side forAWG cables single or multi-strandedtemperature of the conductor for supply maximum permissiblematerial of the conductor for supplytype of electrical connection for load-side outgoing feedertightening torque [lbf-in] for load-side outgoing feedertype of connectable conductor cross-sections for AWG cablesfor load-side outgoing feeder single or multi-strandedtemperature of the conductor for load-side outgoing feedermaximum permissiblematerial of the conductor for load-side outgoing feedertype of electrical connection of magnet coiltightening torque [lbf-in] at magnet coiltype of connectable conductor cross-sections of magnet coil forAWG cables single or multi-strandedtemperature of the conductor at magnet coil maximumpermissiblematerial of the conductor at contactor for auxiliary contactstightening torque [lbf-in] at c	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf·in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf·in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf·in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
Mounting/wiring           mounting position           fastening method           type of electrical connection for supply voltage line-side           type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded           temperature of the conductor for supply maximum permissible           material of the conductor for supply           type of electrical connection for load-side outgoing feeder           tightening torque [lbf in] for load-side outgoing feeder           type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded           temperature of the conductor for load-side outgoing feeder           material of the conductor for load-side outgoing feeder           maximum permissible           material of the conductor for load-side outgoing feeder           type of electrical connection of magnet coil           tightening torque [lbf in] at magnet coil           type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded           temperature of the conductor at magnet coil           type of electrical connection at contactor for auxiliary contacts           tightening torque [lbf in] at contactor for auxiliary contacts           tightening torque [lbf in] at contactor for auxiliary contacts           tightening torque [lbf in] at contactor for auxiliary contacts           tightening torque	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 75 °C	
Mounting/wiringmounting positionfastening methodtype of electrical connection for supply voltage line-sidetype of connectable conductor cross-sections at line-side forAWG cables single or multi-strandedtemperature of the conductor for supply maximum permissiblematerial of the conductor for supplytype of electrical connection for load-side outgoing feedertightening torque [lbf in] for load-side outgoing feedertype of connectable conductor cross-sections for AWG cablesfor load-side outgoing feeder single or multi-strandedtemperature of the conductor for load-side outgoing feedermaximum permissiblematerial of the conductor for load-side outgoing feedertype of electrical connection of magnet coiltightening torque [lbf in] at magnet coiltightening torque [lbf in] at magnet coiltype of connectable conductor at magnet coil maximumpermissiblematerial of the conductor at magnet coil maximumpermissiblematerial of the conductor at contactor for auxiliary contactstightening torque [lbf in] at contactor for auxiliary contactstightening	Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 35 35 lbf-in 1x (14 2 AWG) 75 °C AL or CU Screw-type terminals 5 12 lbf-in 2x (16 12 AWG) 75 °C CU Screw-type terminals 10 15 lbf-in 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG) 75 °C CU	

for AWG cables for auxiliary contacts single or multi-stranded	
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
material of the conductor at overload relay for auxiliary contacts	CU
Short-circuit current rating	
design of the short-circuit trip	Instantaneous trip circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	100 kA
• at 480 V	100 kA
• at 600 V	25 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14

Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:84DUD95BMF

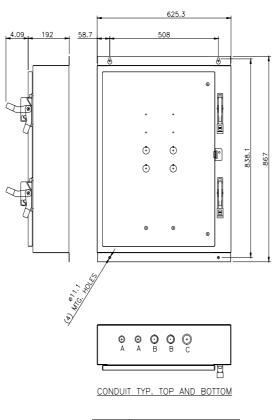
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUD95BMF

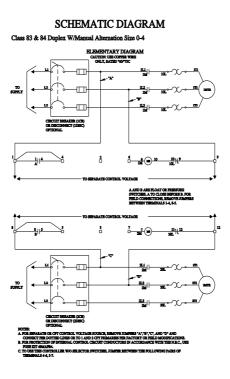
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84DUD95BMF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84DUD95BMF/certificate



LETTER	CONDUIT SIZE
	ø22.2 & ø28.6 CONDUIT
В	ø28.6 & ø34.5 CONDUIT
C	ø34.5 & ø43.6 CONDUIT



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