## **SIEMENS**

Data sheet US2:22DUE32BA

Reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure





product brand name	Class 22
design of the product	Full-voltage reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	23 lb
Height x Width x Depth [in]	20 × 12 × 8 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
during storage	-22 +149 °F
<ul> <li>during operation</li> </ul>	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
<ul> <li>during operation</li> </ul>	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	7.5 hp
• at 220/230 V rated value	7.5 hp
• at 460/480 V rated value	0 hp
• at 575/600 V rated value	0 hp
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 maximum	600 V
operational current at AC at 600 V rated value	27 A
mechanical service life (operating cycles) of the main contacts typical	10000000
Auxiliary contact	
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	AC
control supply voltage	
at AC at 60 Hz rated value	110 240 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
magnet coil	50 %
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
overload protection	Yes
phase failure detection	Yes
asymmetry detection	Yes
ground fault detection	Yes
• test function	Yes
external reset  reset function	Yes  Magual automatic and remote
trip class	Manual, automatic and remote
adjustable current response value current of the current-	CLASS 5 / 10 / 20 (factory set) / 30 10 40 A
dependent overload release	
make time with automatic start after power failure maximum	3 \$
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
	1.4
at DC at 250 V  contact rating of auxiliary contacts of overload relay according to	5A@600VAC (B600), 1A@250VDC (R300)
UL	Wileson And (Dood), Inter200 And (1000)
insulation voltage (Ui)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
with multi-phase operation at AC rated value	300 V
with multi-phase operation at AC rated value     Enclosure	
with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating	1
with multi-phase operation at AC rated value     Enclosure  degree of protection NEMA rating design of the housing	
with multi-phase operation at AC rated value     Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring	1 indoors, usable on a general basis
with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating  design of the housing  Mounting/wiring  mounting position	1 indoors, usable on a general basis  Vertical
with multi-phase operation at AC rated value     Enclosure     degree of protection NEMA rating     design of the housing     Mounting/wiring     mounting position     fastening method	1 indoors, usable on a general basis  Vertical  Surface mounting and installation
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with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply  type of connectable conductor cross-sections at line-side for	1 indoors, usable on a general basis  Vertical  Surface mounting and installation  Screw-type terminals
with multi-phase operation at AC rated value  Enclosure  degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	1 indoors, usable on a general basis  Vertical  Surface mounting and installation  Screw-type terminals  35 35 lbf·in
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type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded	2x (20 14 AWG)
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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
design of the short-circuit trip maximum short-circuit current breaking capacity (Icu)	Thermal magnetic circuit breaker
	Thermal magnetic circuit breaker  14 kA
maximum short-circuit current breaking capacity (Icu)	·
maximum short-circuit current breaking capacity (Icu)  • at 240 V	14 kA
maximum short-circuit current breaking capacity (Icu)  • at 240 V  • at 480 V	14 kA 10 kA

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=US2:22DUE32BA

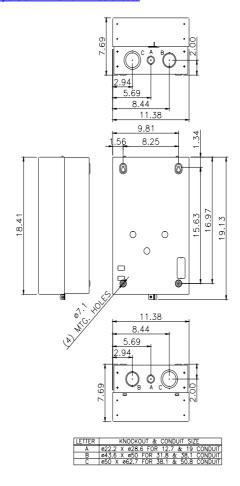
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

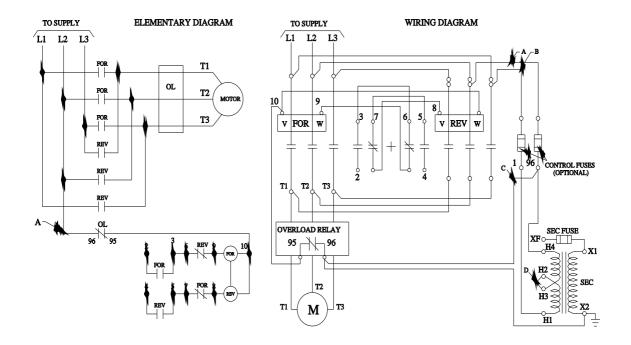
https://support.industry.siemens.com/cs/UŚ/en/ps/US2:22DÚE32BÁ Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:22DUE32BA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:22DUE32BA/certificate





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last modified: 1/25/2022 🖸