## **SIEMENS**

Data sheet US2:30DUEE32A1VF



Figure similar

2-speed 3-phase motor starter Size 1 Two separate windings Constant or variable torque Solid-state overload relays Low SPD OLR range 10-40a High SPD OLR range 10-40a 110V 50HZ / 120V 60HZ coil Enclosure NEMA type (open) No enclosure

design of the product special product feature ESP200 overload relay   General technical data  weight [lb] 8 lb  Height x Width x Depth [in] 7.69 × 10.5 × 3.92 in  Not finger-safe  installation altitude [it] at height above sea level maximum  ambient temperature [*F]  • during storage • during operation 4 +104 *F  ambient temperature • during operation 20 +40 *C  country of origin   Horsepower ratings  yielded mechanical performance [lp] for 3-phase AC  motor  • at 200/208 V rated value 7.5 hp  • at 220/230 V rated value 0 hp  • at 450/480 V rated value 0 hp  • at 450/480 V rated value 0 hp  • at 575/600 V rated value 0 hp  Operation contacts for main contacts operating contacts for main contacts yield government and contacts the first size of sontact and contacts at AC at 600 Hz maximum operational current at AC at 600 V rated value   • operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value   • operating voltage for sain current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value   • operating voltage for sain current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value   • operating voltage for sain current circuit at AC at 60 Hz maximum ontacts typical   Auxiliary contact in unmber of NC contacts at contactor for auxiliary contacts in unmber of NC contacts at contactor for auxiliary contacts in unmber of NC contacts at contactor for auxiliary contacts in unmber of NC contacts at contactor for auxiliary contacts in unmber of NC contacts at contactor for auxiliary contacts in unmber of NC contacts at contactor for auxiliary contacts in unmber of NC contacts at contactor for auxiliary contacts in unmber of NC contacts at contacts for contacts maximum 8 contact rating of auxiliary contacts of contactor according to UI.  Coil type of voltage of the control supply voltage AC	product brand name	Class 30
weight [Ib] 8 Ib Height x Width x Depth [in] 7.69 x 10.5 x 3.92 in touch protection against electrical shock Not finger-safe installation altitude [ft] at height above sea level maximum ambient temperature [*F] • during storage - 22 *149 *F • during storage - 22 *149 *F • during storage - 30 *65 *C • during operation - 20 *40 *C country of origin Mexico  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor • at 2200/208 V rated value 7.5 hp • at 480/480 V rated value 0 hp • at 575/600 V rated value 0 hp • at 575/600 V rated value 0 hp  size of contactor  size of contactor main contacts 6 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 27 A mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 2 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 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 NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 2 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 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 nu	design of the product	Full-voltage two speed motor starter
Height x Width x Depth [in]   7.69 × 10.5 × 3.92 in     Touch protection against electrical shock installation altitude [ft] at height above sea level maximum     ambient temperature [°F]   • during storage   -22 +149 °F     • during operation   -4 +104 °F     • during storage   -30 +65 °C     • during operation   -20 +40 °C     • during temperature   -20 +40 °C     • during	special product feature	ESP200 overload relay
Height x Width x Depth [in]  touch protection against electrical shock Installation altitude [ft] at height above sea level maximum ambient temperature [*F]  • during storage • during operation	General technical data	
touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation  ambient temperature • during storage • during operation  -30 +65 °C • during operation  country of origin  Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 270/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 575/600 V rate	weight [lb]	8 lb
installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation -4 +104 °F  ambient temperature • during storage • during operation -20 +40 °C  country of origin  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 600 V rated value  operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value  poperational current at AC at 600 V rated value  appearational current at AC at 600 V rate	Height x Width x Depth [in]	7.69 × 10.5 × 3.92 in
ambient temperature (°F)  • during storage • during operation  ambient temperature  • during storage • during operation  • during storage • during operation  • at 200/208 V rated value  • at 220/230 V rated value  • at 460/480 V rated value  • at 460/480 V rated value  • on the folion of the during operation of the during op	touch protection against electrical shock	Not finger-safe
<ul> <li>during storage</li> <li>during operation</li> <li>during storage</li> <li>during operation</li> <li>during operation</li> <li>during operation</li> <li>country of origin</li> <li>during operation</li> <li>during opera</li></ul>	installation altitude [ft] at height above sea level maximum	6560 ft
during operation     ambient temperature     during storage     during operation     during operation     country of origin      Mexico  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor     at 200/208 V rated value     at 220/230 V rated value     at 460/480 V rated value     at 575/600 V rated value     at 575/600 V rated value     o hp     isize of contactor  number of NO contacts for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  roperational current at AC at 600 V rated value  nechanical service life (switching cycles) of the main contacts by pical  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NO 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 UI.  Coil	ambient temperature [°F]	
ambient temperature  • during storage • during operation  country of origin  Mexico  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value  operating voltage for main contacts operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor according to UL  Cotil	<ul> <li>during storage</li> </ul>	-22 +149 °F
• during storage     • during operation     country of origin  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor      • at 200/208 V rated value     • at 220/230 V rated value     • at 456/480 V rated value     • at 575/600 V rated value     • at 575/600 V rated value     • at 576/600 V rated value     • operating voltage for main contacts     operating voltage for main current circuit at AC at 60 Hz maximum     operational current at AC at 600 V rated value     operational current at AC at 600 V rated value     remechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of To contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil  -30 +65 °C -20 +40 °C  Mexico	during operation	-4 +104 °F
• during operation     country of origin  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor     • at 200/208 V rated value     • at 220/230 V rated value     • at 460/480 V rated value     • at 575/600 V rated value     • at 575/600 V rated value     operating voltage for main contacts     operating voltage for main current circuit at AC at 60 Hz maximum     operational current at AC at 600 V rated value     appearational current at AC at 600 V rated value     poperational current at AC at 600 V rated	ambient temperature	
country of origin Mexico  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value  O hp  Contactor  size of contactor  number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value  poperational current at AC at 600 V rated value  rechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum  contact rating of auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil	<ul> <li>during storage</li> </ul>	-30 +65 °C
yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • on the foliation of the foliation of total auxiliary contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  poperational current at AC at 600 V rated value  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts  number of total auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil	during operation	-20 +40 °C
yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value  • at 220/230 V rated value  • at 460/480 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  Contactor  size of contactor  number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of total auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil	country of origin	Mexico
motor  • at 200/208 V rated value  • at 220/230 V rated value  • at 460/480 V rated value  • at 575/600 V rated value  • at 575/600 V rated value  • o hp  Contactor  size of contactor  number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NO contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  number of total auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil	Horsepower ratings	
at 220/230 V rated value at 460/480 V rated value by at 575/600 V rated value contactor  size of contactor  size of contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value operational current at AC at 600 V rated value operational service life (switching cycles) of the main contacts typical  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil		
at 460/480 V rated value  at 575/600 V rated value  O hp  Contactor  size of contactor  number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  operational service life (switching cycles) of the main contacts 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  contact rating of auxiliary contacts of contactor according to UL  Coil	• at 200/208 V rated value	7.5 hp
ontactor     size of contactor     size of contactor     number of NO contacts for main contacts     operating voltage for main current circuit at AC at 60 Hz     maximum     operational current at AC at 600 V rated value     mechanical service life (switching cycles) of the main     contacts 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     contact rating of auxiliary contacts of contactor according to UL  Coil  NEMA controller size 1  6  600 V  100000000  27 A  100000000  20  20  100000000  100000000	• at 220/230 V rated value	7.5 hp
size of contactor size of contactor  number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts 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 contact rating of auxiliary contacts of contactor according to UL  Coil	<ul> <li>at 460/480 V rated value</li> </ul>	0 hp
size of contactor  number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts 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  contact rating of auxiliary contacts of contactor according to UL  NEMA controller size 1  6  600 V  100000000  27 A  100000000  2	• at 575/600 V rated value	0 hp
number of NO contacts for main contacts  operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts 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  contact rating of auxiliary contacts of contactor according to UL  Coil	Contactor	
operating voltage for main current circuit at AC at 60 Hz maximum  operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts 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  contact rating of auxiliary contacts of contactor according to UL  Coil  600 V  100000000  27 A  100000000  20  100000000  21  100000000	size of contactor	NEMA controller size 1
maximum operational current at AC at 600 V rated value  mechanical service life (switching cycles) of the main contacts 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  contact rating of auxiliary contacts of contactor according to UL  Coil  27 A  100000000  28 2  100000000  29 1000000000000000000000000000000000000	number of NO contacts for main contacts	6
mechanical service life (switching cycles) of the main contacts 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  contact rating of auxiliary contacts of contactor according to UL  Coil  10000000  2  10000000  10000000  2  100000000		600 V
contacts 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  contact rating of auxiliary contacts of contactor according to UL  Coil	operational current at AC at 600 V rated value	27 A
number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil	,	10000000
number of NO contacts at contactor for auxiliary contacts  number of total auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil	Auxiliary contact	
number of total auxiliary contacts maximum  contact rating of auxiliary contacts of contactor according to UL  Coil  8  10A@600VAC (A600), 5A@600VDC (P600)	number of NC contacts at contactor for auxiliary contacts	2
contact rating of auxiliary contacts of contactor according to UL  Coil  10A@600VAC (A600), 5A@600VDC (P600)	number of NO contacts at contactor for auxiliary contacts	2
to UL  Coil	number of total auxiliary contacts maximum	8
		10A@600VAC (A600), 5A@600VDC (P600)
type of voltage of the control supply voltage AC	Coil	
	type of voltage of the control supply voltage	AC
control supply voltage	control supply voltage	

at AC at 50 Hz rated value	110 V
at AC at 50 Hz rated value      at AC at 60 Hz rated value	110 V 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 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	No
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of overload relay	<u> </u>
• for low rotational speed	10 40 A
for high rotational speed	10 40 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
with multi-phase operation at AC rated value	300 V
Enclosure	
degree of protection NEMA rating	Open device (no enclosure)
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
tightening torque [lbf·in] for supply	35 35 lbf·in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x (14 2 AWG)
temperature of the conductor for supply maximum permissible	75 °C
material of the conductor for supply	AL or CU
type of electrical connection for load-side outgoing feeder	Screw-type terminals
tightening torque [lbf·in] for load-side outgoing feeder	35 35 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	1x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	AL or CU
type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf·in] at magnet coil	5 12 lbf·in

type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (16 12 AWG)
temperature of the conductor at magnet coil maximum permissible	75 °C
material of the conductor at magnet coil	CU
type of electrical connection for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
material of the conductor at contactor for auxiliary contacts	CU
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 at 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
breaking capacity maximum short-circuit current (Icu)	
● at 240 V	14 kA
● at 480 V	10 kA
● at 600 V	10 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	

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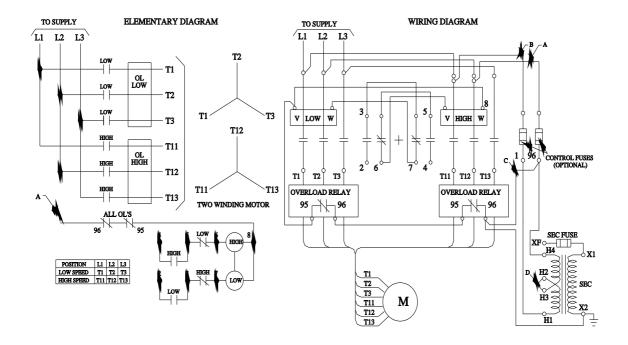
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