SIEMENS

Data sheet

US2:17DUE92WJ12



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 24VAC 50-60Hz coil, Combination type, 60A fusible disconnect, 60A/250V fuse clip, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive, Standard width enclosure

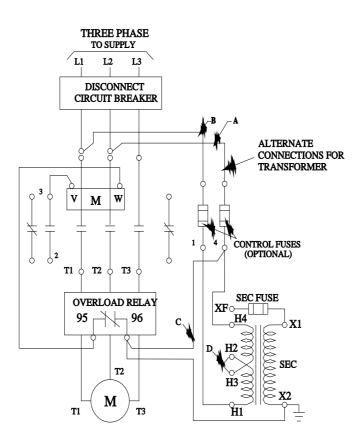
Figure	simi	lar
--------	------	-----

product brand name	Class 17
design of the product	Non-reversing motor starter with fusible disconnect
special product feature	ESP200 overload relay
General technical data	
weight [lb]	34 lb
Height x Width x Depth [in]	24 × 11 × 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
 during operation 	-4 +104 °F
ambient temperature	
 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 	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 (switching cycles) of the main contacts typical	1000000
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 50 Hz rated value 24 V • bolding power at AC minimum 8.6 W apparent holding power of magnet coil at AC 218 VA apparent holding 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 0.85 1.1 of 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 protection Yes • overload protection Yes • asymmetry detection Yes • external reset Yes reset function Yes thip detection Yes • external reset Yes reset function Yes trip porduct function 10 40 A dependent overload release 10 40 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product function contacts of overload 1 tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product feature protective coating on printed-circuit board 1 % product feature protective co	
holding power at AC minimum 8.6 W apparent holding 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 percential drop-out voltage of magnet coil related to the input voltage 0.85 1.1 ON-delay time 19 29 ms OFF-delay time 10 24 ms Overload relay Yes product function Yes • overload protection Yes • ground fault detection Yes • external reset Yes reset function Yes • external reset Yes reset function Yes trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 10 40 A relative repeat accuracy 1 % product feature protective coating on printed-circuit board 1 number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A	
apparent 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 input voltage0.85 1.1ON-delay time19 29 msOFF-delay time10 24 ms Overload relay Yesproduct functionYes• overload protectionYes• asymmetry detectionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload relase3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relay1number of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1aux AC at 600 V5 A• at DC at 250 V1 A	
apparent 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 input voltage50 %OK-delay time19 29 msOFF-delay time10 24 msOverload relayYesproduct functionYes• overload protectionYes• phase failure detectionYes• asymmetry detectionYes• external resetYesreset functionYestrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload relases10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board 	
operating range factor control supply voltage rated value of magnet coll0.85 1.1percental drop-out voltage of magnet coil related to the input voltage50 %ON-delay time19 29 msOFF-delay time10 24 msOverload relayproduct function• overload protectionYes• ground fault detectionYes• esternal resetYesreset functionYesreset functionYes• external resetYesreset functionManual, automatic and remotetripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relay1number of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1ad DC at 250 V1 A	
of magnet coilSoftwarepercental drop-out voltage of magnet coil related to the input voltage50 %ON-delay time19 29 msOFF-delay time10 24 ms Overload relay product function• overload protectionYes• phase failure detectionYes• asymmetry detectionYes• test functionYes• test functionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1out AC at 600 V5 A• at DC at 250 V1 A	
input voltage1ON-delay time19 29 msOFF-delay time10 24 msOverload relayproduct functionYes• overload protectionYes• overload protectionYes• asymmetry detectionYes• ground fault detectionYes• test functionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board1number of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1at AC at 600 V • at DC at 250 V1 A	
OFF-delay time 10 24 ms Overload relay product function • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • ground fault detection Yes • external reset 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 10 40 A relative repeat accuracy 1 % product feature protective coating on printed-circuit board relay Yes number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 • at AC at 600 V 5 A • at DC at 250 V 1 A	
Overload relay product function • overload protection • phase failure detection • phase failure detection • asymmetry detection • aground fault detection • ground fault detection • ground fault detection • test function • external reset reset function trip class cLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum 3 s relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V	
product function• overload protection• phase failure detection• asymmetry detection• asymmetry detection• ground fault detection• ground fault detection• test function• external resetreset functiontrip classclasstripping time at phase-loss maximumrelative repeat accuracyproduct feature protective coating on printed-circuit boardnumber of NC contacts of auxiliary contacts of overloadnumber of NO contacts of auxiliary contacts	
• overload protectionYes• phase failure detectionYes• asymmetry detectionYes• ground fault detectionYes• test functionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relayYesnumber of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay5 Aoperational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V1 A	
 phase failure detection asymmetry detection ground fault detection Yes ground fault detection Yes external reset external reset Yes external reset Yes CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum as relative repeat accuracy product feature protective coating on printed-circuit board relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V AC at 250 V 	
• asymmetry detectionYes• ground fault detectionYes• test functionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relayYesnumber of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1at AC at 600 V • at DC at 250 V5 A 1 A	
• ground fault detectionYes• test functionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relayYesnumber of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay5operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V1	
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 tripping time at phase-loss maximum 3 s relative repeat accuracy product feature protective coating on printed-circuit board relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay e at AC at 600 V e at DC at 250 V A	
• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relayYesnumber of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V5 A 1 A	
reset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V5 A 1 A	
trip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit boardYesnumber of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V5 A 1 A	
adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit boardYesnumber of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V5 A• at DC at 250 V1 A	
adjustable current response value current of the current- dependent overload release10 40 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit boardYesnumber of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V5 A• at DC at 250 V1 A	
tripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit boardYesnumber of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V5 A• at DC at 250 V1 A	
relative repeat accuracy1 %product feature protective coating on printed-circuit boardYesnumber of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V5 A• at DC at 250 V1 A	
product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload 1 number of NO contacts of auxiliary contacts of overload 1 number of NO contacts of auxiliary contacts of overload 1 operational current of auxiliary contacts of overload relay 5 A • at AC at 600 V 5 A • at DC at 250 V 1 A	
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 5 A • at DC at 250 V 1 A	
number of NO contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A • at AC at 600 V 5 A • at DC at 250 V 1 A	
operational current of auxiliary contacts of overload relay• at AC at 600 V• at DC at 250 V1 A	
at AC at 600 V 5 A at DC at 250 V 1 A	
according to UL	
insulation voltage (Ui)	
with single-phase operation at AC rated value 600 V	
with multi-phase operation at AC rated value 300 V	
Disconnect Switch	
response value of switch disconnector 60A / 250V	
design of fuse holder Class R fuse clips	
operating class of the fuse link Class R	
Enclosure	
degree of protection NEMA rating 4X, 304 stainless steel	
design of the housing dustproof, waterproof & resistant to corrosion	
Mounting/wiring	
mounting position vertical	
fastening method Surface mounting and installation	
type of electrical connection for supply voltage line-side Box lug	
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 75 °C 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 75 °C maximum permissible	

	-	
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)	
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=US2:17DUE92WJ12		
Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/US/en/ps/US2:17DUE92WJ12</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17DUE92WJ12⟨=en		

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17DUE92WJ12&lang=en Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:17DUE92WJ12/certificate



D68782001

last modified:

1/25/2022 🖸