## **SIEMENS**

Data sheet US2:17DUC92NF10



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 110V 50Hz / 120V 60Hz coil, Combination type, 30A fusible disconnect, 30A/250V fuse clip, Enclosure NEMA type 4/12, Water/dust tight for outdoors, Standard width enclosure

Figure similar

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]	
<ul> <li>during storage</li> </ul>	-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	2 hp
• at 220/230 V rated value	2 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	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	

and AC at 50 Hz rated value and AC at 50 Hz rated value blotling power of AC minimum apparent holding power of magnet coil at AC apparent holding power of the sea in the sea i		440.1/
Inciding power of AC minimum apparent plok-up power of magnet coil at AC apparent plok-up power of magnet coil related to the product voltage of magnet coil related to the product factory  ONI-delay time  OFF-delay time  OVerfood protection  • overload protection  • plase alfalter detection  • plase alfalter	at AC at 50 Hz rated value	110 V
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 2 5 VA operating range factor control supply voltage rated value percential drop-out voltage of magnet coil related to the injust voltage; CNH-delay time 19 _ 28 ms OFF-delay time 10 _ 24 ms		
apparent holding power of magnet coil at AC potenting range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage of magnetic		
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of magnet coil procental drop-out voltage of magnet coil related to the input voltage ON-delay time OF-delay time 10 _ 24 ms Orerdoad relay product function • overload protection • phase failure detection • phase failure detection • phase failure detection • caseman reset reset function • lest function • casternal reset reset function • product failure protective coaling on printed-circuit board rumber of NC contacts of auxiliary contacts of overload relay  unmber of NC contacts of auxiliary contacts of overload relay  operational current of auxiliary contacts of overload relay • at AC at 250 V • at DC at 250 V • at DC at 250 V • with multi-phase operation at AC rated value • with multi-phase operation of a Class R  case R  case R  case Vess  verifical  for vess  for verifical  for ve		
Injury voltage ON-delay time OF-delay time OF-delay time OF-delay time OVerdoad rolay  product function • overload protection • phase failure detection • asymmetry detection • external reset • external reset • external reset reset function  Titip class adjustable current response value current of the current-dependent overload release  tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay and the role of auxiliary contacts of overload relay  at AC at 500 V • at DC at 250 V • at DC at 250 V • with multi-phase operation at AC rated value • with mult	of magnet coil	
Ortrod rolary  product function  • overload protection  • overload protection  • phase failure detection  • asymmetry detection  • external reset  • ground fault detection  • external reset  • external reset  • ground fault detection  • external reset  • external reset  • ground fault detection  • yes  • and 2 and passe of passe operation ground fault of the current-dependent overload relax  • at AC at 600 v  • at Cat 250 v  • with single-phase operation at AC rated value  • with multi-phase operation		50 %
product function  • overload protection  • phase failure detection  • product faction  fleping films at phase-loss maximum  relative repeat accuracy  product facting protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay  • at AC at 600 V  • at C at 250 V  • at C at 250 V  contact rating of auxiliary contacts of overload relay  • with multi-phase operation at AC rated value  • with multi-phase operation of action  design of fuse holder  Class R fuse clips  Good of the sholder  Mounting writing  mounting position  satering method  Surface mounting addition  surface with production for supply voltage line-side at AWG cabes single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  type of connectable conductor for soupply maximum permissible  material of the conductor for load-side outgoing feeder  type of connectable con	ON-delay time	19 29 ms
product function	OFF-delay time	10 24 ms
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phase failure detection asymmetry detection asymmetry detection test duction test function test function external reset  resel function Manual, automatic and remote trip class adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay eat AC at 800 V at DC at 250 V at DC at 2	product function	
asymmetry detection     ground fault detection     test function     external reset     yes     reset function     Indicate the external reset     yes     reset function     Indicate the external reset     yes     adjustable current response value current of the current-dependent overload release     tripping time at phase-loss maximum     3 s     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 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     at DC at 250 V     at DC at 250 V     with multi-phase operation at AC rated value     with single-phase operation at AC rated value     with multi-phase operation at AC rated value     was the fuse link     Class R     C	<ul> <li>overload protection</li> </ul>	Yes
• ground fault detection • text function • external reset  reset function  # of text	<ul> <li>phase failure detection</li> </ul>	Yes
external reset reset function  for plass  adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board rumber of NC contacts of auxiliary contacts of overload relay relative repeat accuracy rumber of NC contacts of auxiliary contacts of overload relay repeational current of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V  contact rating of auxiliary contacts of overload relay at AC at 600 V becommed Switch insulation voltage (UI) with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value class of the fuse link Class R  Class	<ul> <li>asymmetry detection</li> </ul>	Yes
reset function  fing class adjustable current response value current of the current- dependent overload release  tripping time at phase-loss maximum  relative repeat accuracy  tripping time at phase-loss maximum  relative repeat accuracy  product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay  poperational current of auxiliary contacts of overload relay  at AC at 800 V  at DC at 250 V  at DC at 250 V  contact rating of auxiliary contacts of overload relay  exit himbi-phase operation at AC rated value  with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  with multi-phase operation at AC rated value  objectioned Switch  response value of switch disconnector  design of flus holder  operating class of the fuse link  Class R fuse clips  Class R fuse clips  Class R use clips  Class R	<ul> <li>ground fault detection</li> </ul>	Yes
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 relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload 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 Contact rating of auxiliary contacts of overload relay contact rating of auxiliary contacts of overload relay at AC at 600 V at Contact rating of auxiliary contacts of overload relay with multi-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value correct with disconnector design of fuse holder operating class of the fuse link Class R	• test function	Yes
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adjustable current response value current of the current-dependent overload release tripping time at phase-loss maximum  relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay number of NC contacts of auxiliary contacts of overload relay  • at AC at 600 V • at DC at 250 V • at DC at 250 V • at DC at 250 V • with single-phase operation at AC rated value • with single-phase operation at AC rated value • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with response value of switch disconnector design of fuse holder operating class of the fuse link  Enclosuro degree of protection NEMA rating design of the housing  Mounting/wiring mounting position fyse felcitical connectation for supply voltage line-side tightening torque [librin] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder type of condectable conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of condectable conductor for load-side outgoing feeder type of condectable conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of condectable conductor for supply maximum type of connectable conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for supply maximum type of conductor for supply maximum type of connectable conductor for supply maximum type of connectable conductor for supply maximum type of connectable conductor for supply type of connectable cond	reset function	Manual, automatic and remote
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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  contact rating of auxiliary contacts of overload relay according to U.  insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • wi	relative repeat accuracy	1 %
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  contact rating of auxiliary contacts of overload relay according to U.  insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • wi	•	Yes
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operational current of auxiliary contacts of overload relay	number of NO contacts of auxiliary contacts of overload	1
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contact rating of auxiliary contacts of overload relay according to UL insulation voltage (UI)  • with single-phase operation at AC rated value • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value  • with multi-phase operation at AC rated value    Source   Switch		5 A
according to UL insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder	● at DC at 250 V	1 A
insulation voltage (Ui)  • with single-phase operation at AC rated value  • with multi-phase operation at AC rated value  Disconnect Switch  response value of switch disconnector  design of fuse holder		5A@600VAC (B600), 1A@250VDC (R300)
with multi-phase operation at AC rated value    Disconnect Switch		
with multi-phase operation at AC rated value    Disconnect Switch	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  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 at AWG cables single or multi-stranded  temperature of the conductor for supply  type of connectable conductor for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for supply at the conductor for supply to the conductor for supply		300 V
response value of switch disconnector  design of fuse holder  operating class of the fuse link  Class R  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 at AWG cables single or multi-stranded  temperature of the conductor for supply  type of connectable conductor for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for supply at the conductor for supply to the conductor for supply	<u> </u>	
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operating class of the fuse link  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 at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder toghthening torque [lbf-in] for load-side outgoing feeder	·	
degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor for supply type of connectable conductor for supply type of connectable conductor for supply maximum permissible  Material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder  75 °C		
degree of protection NEMA rating design of the housing  Mounting/wiring  mounting position fastening method type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded  material of the conductor for supply type of connectable connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder stightening torque [lbf-in] for load-side outgoing feeder toghther in the conductor for supply type of electrical connection for load-side outgoing feeder toghther in the conductor for supply type of connectable 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 at AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder		
design of the housing    Mounting/wiring		1 12
Mounting/wiring       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 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       75 °C		
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 at 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 at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	uusιρισσί, waterρίσσι α weatherproof
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 at AWG cables single or multi-stranded  temperature of the conductor for supply maximum permissible  material of the conductor for load-side outgoing feeder  tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  Surface mounting and installation  Box lug  1x (14 2 AWG)  1x (14 2 AWG)  AL or CU  Screw-type terminals  1x (14 2 AWG)  1x (14 2 AWG)  1x (14 2 AWG)		
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tightening torque [lbf·in] for supply  type of connectable conductor cross-sections at line-side at 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 at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  75 °C		-
type of connectable conductor cross-sections at line-side at 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 at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  temperature of the conductor for load-side outgoing feeder  75 °C		
at 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 at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C		
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 at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  AL or CU  Screw-type terminals  1x (14 2 AWG)  1x (14 2 AWG)	at AWG cables single or multi-stranded	
type of electrical connection for load-side outgoing feeder  tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  Screw-type terminals  35 35 lbf·in  1x (14 2 AWG)  75 °C	permissible	75 °C
tightening torque [lbf·in] for load-side outgoing feeder  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C	material of the conductor for supply	AL or CU
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded  temperature of the conductor for load-side outgoing feeder  75 °C	type of electrical connection for load-side outgoing feeder	Screw-type terminals
cables for load-side outgoing feeder single or multi- stranded  temperature of the conductor for load-side outgoing feeder  75 °C	tightening torque [lbf·in] for load-side outgoing feeder	35 35 lbf·in
temperature of the conductor for load-side outgoing feeder 75 °C	cables for load-side outgoing feeder single or multi-	1x (14 2 AWG)
	temperature of the conductor for load-side outgoing feeder	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)
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=US2:17DUC92NF10

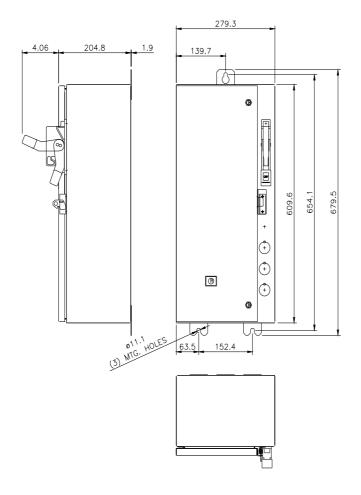
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

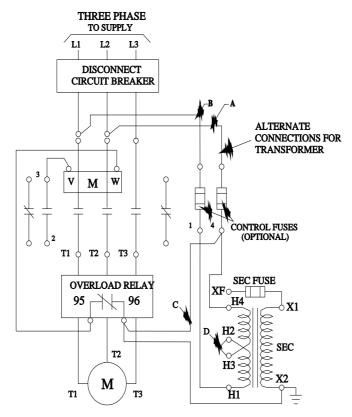
https://support.industry.siemens.com/cs/US/en/ps/US2:17DUC92NF10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17DUC92NF10&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:17DUC92NF10&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:17DUC92NF10/certificate





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