



Figure similar

Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLRelay amp range 3-12a, 110V 50HZ / 120V 60HZ coil, Combination type, 30Amp non-fusible disconnect Encl NEMA type 4X 316 S-steel Water/dust tight noncorrosive, Extra-wide enclosure

product brand name
design of the product
special product feature

Class 17 & 25
Full-voltage non-reversing motor starter with non-fusible disconnect
ESP200 overload relay

General technical data

Height x Width x Depth [in]	24 × 20 × 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

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	5 hp
• at 575/600 V rated value	5 hp

Contactors

size of contactor	NEMA controller size 1
number of NO contacts for main contacts	3
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	345VA@115VAC / 768VA@240VAC

Coil

type of voltage of the control supply voltage	AC
control supply voltage	
• at AC at 50 Hz rated value	110 V
• at AC at 60 Hz rated value	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	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	3 ... 12 A
make time with automatic start after power failure 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	5
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 disconnecter	30
design of fuse holder	non-fusible
operating class of the fuse link	non-fusible

Enclosure

degree of protection NEMA rating	4, 316
design of the housing	Extra-wide
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	1
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	1
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	2
temperature of the conductor at magnet coil maximum permissible	75 °C

material of the conductor at magnet coil
type of electrical connection for auxiliary contacts
tightening torque [lbf-in] at contactor for auxiliary contacts
type of connectable conductor cross-sections at contactor
at AWG cables for auxiliary contacts single or multi-stranded
temperature of the conductor at contactor for auxiliary contacts maximum permissible
material of the conductor at contactor for auxiliary contacts
type of electrical connection at overload relay for auxiliary contacts
tightening torque [lbf-in] at overload relay for auxiliary contacts
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded
temperature of the conductor at overload relay for auxiliary contacts maximum permissible
material of the conductor at overload relay for auxiliary contacts

CU
Screw-type terminals
10 ... 15 lbf-in
1

75 °C

CU
Screw-type terminals
7 ... 10 lbf-in
2

75 °C

CU

Short-circuit current rating

design of the fuse link for short-circuit protection of the main circuit required
certificate of suitability

10
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=US2:17DUC82XF>

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

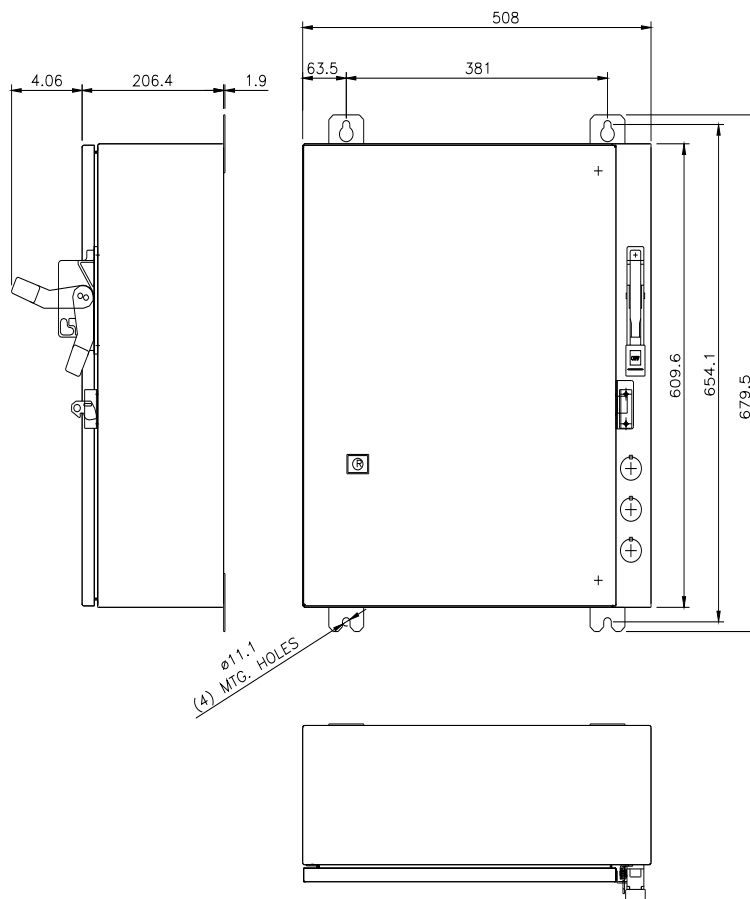
<https://support.industry.siemens.com/cs/US/en/ps/US2:17DUC82XF>

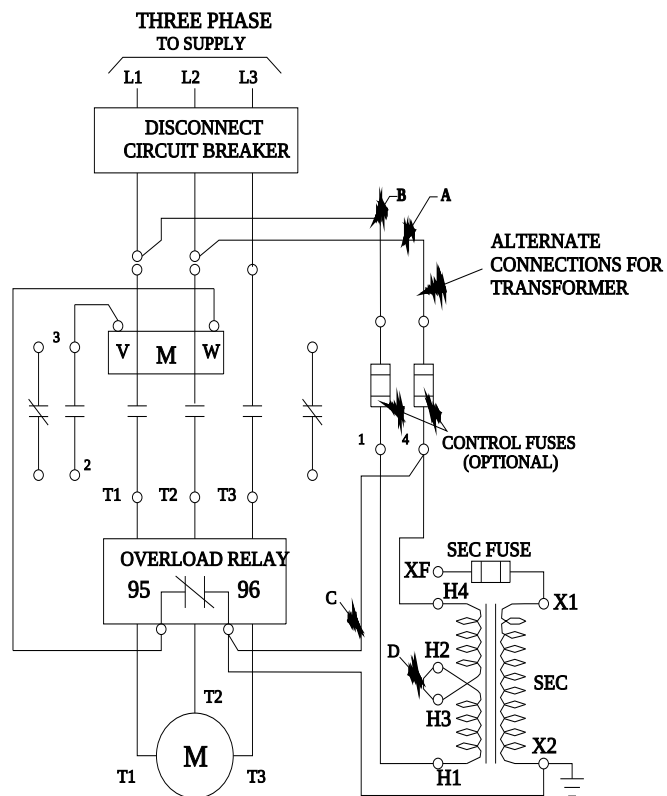
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17DUC82XF&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:17DUC82XF/certificate>





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