



Contactor, 42DP,50A,3P,Open,120 Contactor, 42DP,50A,3P,Open,120

product brand name	Class 42 DP Contactors
design of the product	Non-reversing Definite Purpose Contactor
special product feature	Snap on auxiliary contacts, enclosed body design
<b>General technical data</b>	
weight [lb]	1.59 lb(av)
Height x Width x Depth [in]	4.04 × 2.87 × 3.11 in
touch protection against electrical shock	Not finger-safe
ambient temperature [°F]	
<ul style="list-style-type: none"> <li>during storage</li> <li>during operation</li> </ul>	158 °F 158 ... 158 °F
ambient temperature	
<ul style="list-style-type: none"> <li>during storage</li> <li>during operation</li> </ul>	75 °C 70 ... 70 °C
country of origin	China
number of poles for main current circuit	3
<b>Horsepower ratings</b>	
yielded mechanical performance [hp] for 3-phase AC motor	
<ul style="list-style-type: none"> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul>	20 hp 25 hp
<b>Contactor</b>	
size of contactor	50A
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	200 A
mechanical service life (operating cycles) of the main contacts typical	250000
<b>Auxiliary contact</b>	
number of NC contacts for auxiliary contacts	4
number of NO contacts for auxiliary contacts	4
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	0
number of total auxiliary contacts maximum	4
operational current of auxiliary contacts of contactor	
<ul style="list-style-type: none"> <li>at AC at 600 V</li> </ul>	10 A
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC
<b>Coil</b>	
control supply voltage	
<ul style="list-style-type: none"> <li>at AC at 50 Hz rated value</li> <li>at AC at 60 Hz rated value</li> </ul>	110 V 110 ... 120 V

Enclosure	
degree of protection NEMA rating of the enclosure	Open device (no enclosure)
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	50 ... 50 lbf-in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	2 AWG
type of electrical connection for load-side outgoing feeder	Box lug
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	2 AWG
type of electrical connection of magnet coil	Quick connects, Screw-type terminals
type of electrical connection for auxiliary and control circuit	Quick Connects, Screw-type terminals
type of electrical connection at contactor for auxiliary contacts	Screw-type terminals
Certificates/ approvals	
certificate of suitability	cRUus, ARI 780 & 790, UL File E14900
Approvals Certificates	
Test Certificates	



#### Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...)

[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:42DF35AF>

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

<https://support.industry.siemens.com/cs/US/en/ps/US2:42DF35AF>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:42DF35AF&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:42DF35AF&lang=en)

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:42DF35AF/certificate>

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