SIEMENS

Data sheet US2:42EF35AG



Contactor, 42DP,60A,3P,Open,240 Contactor, 42DP,60A,3P,Open,240

design of the product synchrotic feature Snap on auxiliary contacts, enclosed body design Sendal product feature Snap on auxiliary contacts, enclosed body design Snap on auxiliary contacts and surface Snap on auxiliary contacts on auxiliar		
Special product feature General technical data weight [tb] Height X Width x Depth [in] 4.04 × 2.87 × 3.11 in touch protection against electrical shock Not finger-safe ambient temperature [*F] 4.04 in gorage 4.04 in gorage 5.76 °C 4.04 ing storage 5.75 °C 4.04 ing operation 7.0 70 °C country of origin number of poles for main current circuit 7.04 in 460.480 V rated value 1.05 hp 1	product brand name	Class 42 DP Contactors
weight [b] 1.59 b(av) Height x Width x Depth [in] 4.04 x 2.87 x 3.11 in touch protection against electrical shock Not finger-safe ambient temperature [in] 4.04 x 2.87 x 3.11 in during storage 158 "F	design of the product	Non-reversing Definite Purpose Contactor
weight [lb] Height x Width x Depth [in] 4.04 × 2.87 × 3.11 in touch protection against electrical shock Anot finger-safe ambient temperature ['F] • during storage • during operation arbient temperature • during storage • during operation arbient temperature • during storage • during operation 75 °C country of origin number of poles for main current circuit **Norsepower ratings** yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value 25 hp • at 575/600 V rated value 25 hp • at 575/600 V rated value 26 hp operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 240 A mechanical service life (operating cycles) of the main contacts typical Auxillary contact number of NC contacts for auxiliary contacts 4 number of NC contacts for auxiliary contacts 4 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 10 A 10	special product feature	Snap on auxiliary contacts, enclosed body design
Height x Width x Depth [in] touch protection against electrical shock ambient temperature [*F] • during storage • during operation ambient temperature • during operation ambient temperature • during operation ambient temperature • during operation for C ountry of origin country origin country of origin country of origin country origin count	General technical data	
touch protection against electrical shock ambient temperature "F" • during storage • during operation 70 70 °C country of origin country contactor • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 675/600 V rated value contactor size of contactor contactor contactor contacts for main contacts coperating voltage for main current circuit at AC at 60 Hz maximum coperational current at AC at 600 V rated value coperational current at AC at 600 V rated value contacts for auxiliary contacts control supply voltage • at AC at 600 V contacts at contactor for auxiliary contacts control supply voltage • at AC at 500 Hz rated value 100 Macronact control supply voltage • at AC at 500 Hz rated value 100 Macronact control supply voltage • at AC at 50 Hz rated value 100 Macronact control supply voltage • at AC at 50 Hz rated value 100 Macronact control supply voltage • at AC at 50 Hz rated value 100 Macronact control supply voltage • at AC at 50 Hz rated value 100 Macronact control supply voltage	weight [lb]	1.59 lb(av)
amblent temperature ["F] • during storage • during operation amblent temperature • during storage • during operation 75 °C • during operation 75 °C • during operation 70 70 °C country of origin number of poles for main current circuit 3 **Horsspower ratings** yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value **Ontactor* size 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 240 A mechanical service life (operating cycles) of the main contacts typical **Auxiliary contact** number of NC contacts 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 NO 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 NO 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 NO 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 NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 10 10 A contact rating of auxiliary contacts of contactor • at AC at 600 V contact supply voltage • at AC at 50 Hz rated value 190 220 V	Height x Width x Depth [in]	4.04 × 2.87 × 3.11 in
• during storage • during operation ambient temperature • during storage • during storage • during operation 75 °C country of origin number of poles for main current circuit **Horsepower ratings** yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 675/600 V rated value **Operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value **mechanical service life (operating cycles) of the main contacts plyical **Auxiliary contact** number of NO contacts for auxiliary contacts number of NO 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 NO 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 NO 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 NO 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 NO 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 NO 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 NO contacts for auxiliary contacts number of NO contac	touch protection against electrical shock	Not finger-safe
during operation ambient temperature during storage during operation 75 °C country of origin China number of poles for main current circuit description each of the state of th	ambient temperature [°F]	
amblent temperature • during storage • during operation country of origin number of poles for main current circuit 3 Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value 30 hp Contactor size of 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 mechanical service life (operating cycles) of the main contacts typical Auxillary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of	during storage	158 °F
during storage during operation 75 °C eduring operation 70 70 °C country of origin China number of poles for main current circuit 3 Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor e at 480/480 V rated value e at 575/600 V rated value e at 575/600 V rated value e at 575/600 V rated value Size of contactor size of contactor size of contactor size of contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value activityical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts 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 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 auxiliary contacts of contactor at AC at 600 V contact rating of auxiliary contacts of contactor at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage at AC at 50 Hz rated value 190 220 V	during operation	158 158 °F
 during operation country of origin number of poles for main current circuit Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value at 575/600 V rated value 60A 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 240 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts 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 of contactor at AC at 600 V contact rating of auxiliary contacts of contactor at AC at 600 V control supply voltage at AC at 50 Hz rated value 190 220 V 	ambient temperature	
country of origin number of poles for main current circuit 3 Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value 25 hp • at 575/600 V rated value 25 hp contactor size of contactor size of contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 240 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 4 number of NC 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 NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of No contacts at contactor for auxiliary contacts 0 number of No contacts at contactor for auxiliary contacts 0 number of No contacts at contactor for auxiliary contacts 0 number of No contacts at contactor for auxiliary contacts 0 10 A contact rating of auxiliary contacts of contactor 0 at AC at 600 V 10 A contact rating of auxiliary contacts of contactor according to UL control supply voltage 0 at AC at 50 Hz rated value 190 220 V	during storage	75 °C
number of poles for main current circuit Horsepower ratings	during operation	70 70 °C
yielded mechanical performance [hp] for 3-phase AC motor	country of origin	China
yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value 30 hp Contactor size of contactor size of contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 240 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC contacts 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 operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 190 220 V	number of poles for main current circuit	3
at 460/480 V rated value at 575/600 V rated value 30 hp Contactor 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 (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts 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 of contactor at AC at 600 V operational current of auxiliary contacts 10 number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor at AC at 600 V operational current of auxiliary contacts of contactor at AC at 600 V to A contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage at AC at 50 Hz rated value 190 220 V	Horsepower ratings	
otal s75/600 V rated value Contactor 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 (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 30 hp 60A 60A 60A 60A 60A 60A 60A 60	yielded mechanical performance [hp] for 3-phase AC motor	
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 (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current at AC at 600 V operational current at AC at 600 V total auxiliary contacts of contactor at AC at 600 V contact rating of auxiliary contacts of contactor according to UL control supply voltage at AC at 50 Hz rated value 190 220 V	• at 460/480 V rated value	25 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 (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts contacts 1 nu	• at 575/600 V rated value	30 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 (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts 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 NO contacts at contactor for auxiliary contacts number of total auxiliary contacts of contactor operational current of auxiliary contacts of contactor otal AC at 600 V 10 A contact rating of auxiliary contacts of contactor according to UL coil control supply voltage otal AC at 50 Hz rated value 190 220 V	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 (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts 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 operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL control supply voltage • at AC at 50 Hz rated value 600 V 40 A 250000 250000 10 A 10 A 10 A 10 A 26000VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC Coil control supply voltage • at AC at 50 Hz rated value	size of contactor	60A
maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts 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 total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 240 A 250000 260000 4 10 A 10 A 10 A 26000VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC	number of NO contacts for main contacts	3
mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts 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 total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 190 220 V		600 V
Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 190 220 V	operational current at AC at 600 V rated value	240 A
number of NC contacts for auxiliary contacts number of NO contacts 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 operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 190 220 V		250000
number of NO contacts 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 operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 190 220 V	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 operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 190 220 V	number of NC contacts for auxiliary contacts	4
number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL total 10 A contact rating of auxiliary contacts of contactor according to UL control supply voltage • at AC at 50 Hz rated value 190 220 V	number of NO contacts for auxiliary contacts	4
number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 4 10 A 10 A	number of NC contacts at contactor for auxiliary contacts	0
operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 10 A 10	number of NO contacts at contactor for auxiliary contacts	0
at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage at AC at 50 Hz rated value 10 A	number of total auxiliary contacts maximum	4
contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC Coil control supply voltage • at AC at 50 Hz rated value 190 220 V	operational current of auxiliary contacts of contactor	
Coil control supply voltage ● at AC at 50 Hz rated value 190 220 V	• at AC at 600 V	10 A
control supply voltage ● at AC at 50 Hz rated value 190 220 V	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC
• at AC at 50 Hz rated value 190 220 V	Coil	
	control supply voltage	
• at AC at 60 Hz rated value 208 240 V	• at AC at 50 Hz rated value	190 220 V
	 at AC at 60 Hz rated value 	208 240 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

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:42EF35AG}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:42EF35AG

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:42EF35AG&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:42EF35AG/certificate

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