SIEMENS

Data sheet US2:42GE35AH



Contactor, 42DP,90A,3P,Open,480 Contactor, 42DP,90A,3P,Open,480

Coil control supply voltage ● at AC at 50 Hz rated value 380 440 V		
special product feature General technical data weight [Ib] Height x Width x Depth [in] 5.02 × 3.5 × 4.39 in touch protection against electrical shock Anot finger-safe ambient temperature [*F] 4. during storage 5.04 uring operation 5.05 × 3.5 × 4.39 in touch protection against electrical shock Not finger-safe ambient temperature [*F] 4. during operation 5.05 *F 4. during operation 5.07 *C 4. during operation 7.0 *** 70 *** C 4. during operation 7.0 *** 70 *** C 4. during operation 7.0 *** 70 *** C 5. Othiaa number of poles for main current circuit 3 **Hosspower ratings** yielded mechanical performance [hp] for 3-phase AC motor 4. at 460480 V rated value 50 hp 50 hp **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 360 A mechanicals service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts 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 for auxiliary contacts 0 10 A contact rating of auxiliary contacts of contactor 2 at AC at 600 V rated value 360 A 280 A 290 A 10 A contact rating of auxiliary contacts of contactor 20 at AC at 600 V rate auxiliary contacts 0 10 A contot supply voltage 2 at AC at 50 Hz rated value 380 440 V	product brand name	Class 42 DP Contactors
weight [Ib] 4.08 lib Height x Width x Depth [In] 5.02 × 3.5 × 4.39 in touch protection against electrical shock Not finger-safe ambient temperature [*F] • during storage 158 "F • during operation 158 158 "F ambient temperature • during operation 77 70 "C country of origin China number of poles for main current circuit 3 Horsopower ratings yielded mechanical performance [Ip] for 3-phase AC motor • at 460/480 V rated value 50 hp Contactor size of contactor nain 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 2 number of NC contacts for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for	design of the product	Non-reversing Definite Purpose Contactor
weight [ib] Height x Width x Depth [in] 5.02 × 3.5 × 4.39 in touch protection against electrical shock ambient temperature [*F] • during storage • during operation ambient temperature • during storage • during operation ambient temperature • during storage • during operation 70 70 °C country of origin number of poles for main current circuit 3 Horspower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value • 50 hp contactor 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 soperating voltage for main current circuit at AC at 60 Hz mechanical service life (operating cycles) of the main contacts hypical Auxillary 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 operational current of auxiliary contacts of contactor • at AC at 600 V contact arting of auxiliary contacts of contactor • at AC at 600 V contact arting of auxiliary contacts of contactor • at AC at 50 Hz rated value 800 440 V	special product feature	Snap on auxiliary contacts, enclosed body design
Height X Width x Depth [in] touch protection against electrical shock ambient temperature [*F] oluring storage oluring operation arbient temperature oluring storage oluring operation arbient temperature oluring storage oluring operation arbient temperature oluring storage oluring operation arbient of origin country of origin number of poles for main current circuit Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor oluring storage oluring operation at 460/480 V rated value oluring storage of contactor size of contactor size of contactor arbient of NO contacts 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 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 operational current of auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts at contactor for auxiliary contacts operational current of auxiliary contacts of auxiliary contacts and contactor of ouxiliary contacts operational current of auxiliary contacts of auxiliary contact of ouxiliary contacts on one of NO contacts at contactor of ouxiliary contacts on one of NO contacts at contactor of ouxiliary contacts on one of NO contacts at contactor of ouxiliary contacts of output the folial auxiliary contacts of contactor of at AC at 50 Hz rated value	General technical data	
touch protection against electrical shock ambient temperature [*F] • during storage • during operation ambient temperature • during operation touchly of origin country origin country of origin country origin country origin country origin country origin country origin country origi	weight [lb]	4.08 lb
ambient temperature ["F] • during storage • during operation ambient temperature • during operation ambient temperature • during operation • during operation 75 °C • during operation 70 70 °C China 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 50 hp Contactor size of contactor size of contactor 90A number of NO contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value approximation 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 a	Height x Width x Depth [in]	5.02 × 3.5 × 4.39 in
 during storage during operation during storage during storage during storage during operation 75 °C during operation 70 70 °C country of origin control supply voltage at 460/480 V rated value by ledded mechanical performance (hp) for 3-phase AC motor at 460/480 V rated value by ledded mechanical performance (hp) for 3-phase AC motor at 460/480 V rated value by hp at 575/600 V rated value by hp contactor size of contactor number of NC contacts for main contacts a operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value a600 V maximum operational current at AC at 600 V rated value a560 A a50000 a50000 a50000 absolution of NC contacts for auxiliary contacts control supply ontacts at contactor for auxiliary contacts number of NC contacts for auxiliary contacts a control supply voltage at AC at 600 V at AC at 500 Hz rated value 380 440 V 	touch protection against electrical shock	Not finger-safe
during operation ambient temperature during operation during operation during operation country of origin country country of origin country country of origin country count	ambient temperature [°F]	
ambient temperature • during storage • during operation country of origin number of poles for main current circuit definition **To 70 °C Country of origin number of poles for main current circuit **To 70 °C China number of poles for main current circuit **To 70 °C China number of poles for main current circuit **To 70 °C China number of poles for main current circuit **To 70 °C China number of NO cnatact performance [hp] for 3-phase AC motor **To 70 °C **To 70 °C China **To 70 °C **To .	during storage	158 °F
during storage during operation 75 °C during 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 at 460/480 V rated value at 575/600 V rated value 50 hp 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 mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 2 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 Coil control supply voltage 0 at AC at 50 Hz rated value 380 440 V	during operation	158 158 °F
during 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	ambient temperature	
country of origin number of poles for main current circuit ## Visepower ratings yielded mechanical performance [hp] for 3-phase AC motor	during storage	75 °C
number of poles for main current circuit Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value 50 hp 50 hp Contactor size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz mechanical service life (operating cycles) of the main contacts typical 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 total auxiliary contacts maximum operational current of 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 380 440 V	during operation	70 70 °C
Vielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value 50 hp 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 2 number of NC contacts for auxiliary contacts 2 number of NC contacts at contactor for auxiliary contacts 2 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 total auxiliary contacts maximum 2 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 380 440 V	country of origin	China
yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value 50 hp 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 360 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 2 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 operational current of auxiliary contacts 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	number of poles for main current circuit	3
at 460/480 V rated value by at 575/600 V rated value 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 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 0 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 0 number of total auxiliary contacts maximum 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 50 hp 600 V 90A 90A 90A 90A 90A 90A 90A 90	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 Cotil control supply voltage • at AC at 50 Hz rated value 50 hz 600 V 800 A 800 V 800 A	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 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 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 380 440 V	• at 460/480 V rated value	50 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 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 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 380 440 V	• at 575/600 V rated value	50 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 operational 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 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 total control supply voltage • at AC at 50 Hz rated value 380 440 V	Contactor	
operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value ason A 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 total auxiliary contacts maximum operational current of auxiliary contacts of contactor at AC at 600 V total contacts at contactor according to UL control supply voltage at AC at 50 Hz rated value 600 V at 600 V 10 A 10 A 10 A 20 A 10 A 10 A 20 A 10 A 20 A	size of contactor	90A
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 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 380 440 V	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 250000 250000 2600000 2000000000000		600 V
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 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 380 440 V	operational current at AC at 600 V rated value	360 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 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 380 440 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 380 440 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 380 440 V	number of NC contacts for auxiliary contacts	2
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 380 440 V	number of NO contacts for auxiliary contacts	2
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 2 10 A 10 A 10 A 10 A 20 10 A 10 A 20 20 20 20 20 20 20 20 20 2	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 10 A 10 A@600VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC Coil 380 440 V 	number of total auxiliary contacts maximum	2
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 380 440 V	operational current of auxiliary contacts of contactor	
Coil control supply voltage ● at AC at 50 Hz rated value 380 440 V	at AC at 600 V	10 A
control supply voltage ● at AC at 50 Hz rated value 380 440 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 380 440 V	Coil	
	control supply voltage	
at AC at 60 Hz rated value 440 480 V	• at AC at 50 Hz rated value	380 440 V
	 at AC at 60 Hz rated value 	440 480 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	60 60 lbf·in	
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	1/0 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	1/0 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	
Further information		

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

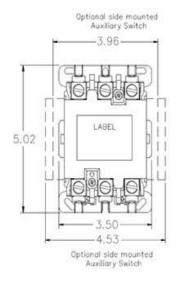
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:42GE35AH

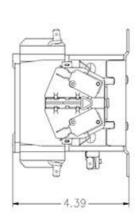
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:42GE35AH

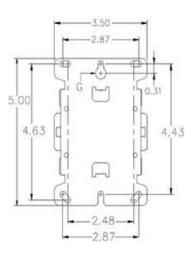
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:42GE35AH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:42GE35AH/certificate







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