

Quarter-Turn Electric Actuator

Fig : GE / GER



■ Features

Model range	GE / GER
Torque range	10 ~ 20000 N.m
Voltage	1 phase 110/220V ±10%, 3 Phase 380V ±10% , 24V ACDC
Control	On off / Modulating
Function range	Standard, local control, fail safe (backup), fast open Valve
Application	Butterfly valve, ball valve, plug valve,damper



Electric Actuator Model	GE-B1/B2/B3 ; GER-B1/B2/B3		
Technical Specification	50/60Hz, 1 Phase , Multi-voltage, On/Off, Modulating type		
Fig.	GE-B1 / GER-B1	GE-B2 / GER-B2	GE-B3 / GER-B3
Max Torque(N.m)	10	20	30
Max Torque(lbf.in)	89	177	266
Operation Time(Sec)	13	12	11
Power (Watts)	5	8	10
Standard Voltage	AC85~265V and AC/DC24V Multi voltage		
Control Signal	On/Off digital signal; Modulating, 4~20mA or 0-10V or 2-10V		
Feedback Signal	On/Off - Dry contact position feedback; (rated 5A @250V AC) Modulating - 4-20mA or 0-10V or 2-10V position analog feedback ;		
Duty Cycle	On/Off: S2~15min (≤ 60 starts per hour), Modulating: S4~50% (600 trigger per hour)		



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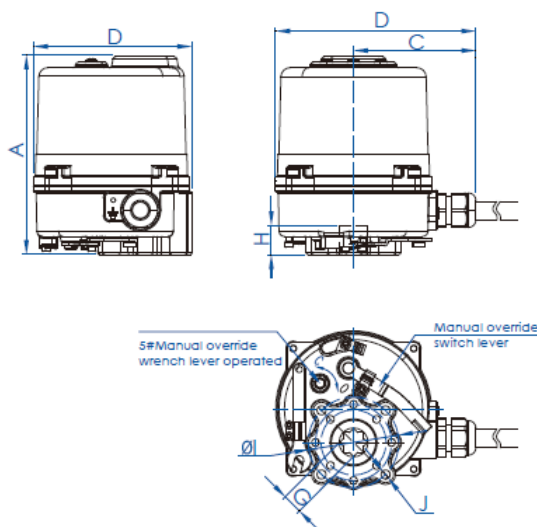
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Enclosure	IP67
Motor Stall Protection	Built in over current protector
Space Heater	Anti condensation heating resistance
Manual Override	Declutchable, wrench lever operated
Limit Switches	1 x Open / Close, 5A @250VAC, 1 x open/close auxiliary limit switches
Gear Type	Spur gear
Indicator	Mechanical pointer / Status lamp
External Coating	Epoxy Powder Coating
Travel Angle	90° (± 10°)
Ambient Temperature	-25 °C ... +70 °C
Housing	Alluminium alloy
Valve Coupling	F03 +F04 + F05 (Multi drilled)
Square drive size	11mm
Max. Diameter	-
Max. Two Flat	-
Max. Valve Stem length	16mm

■ Dimension(mm)

Fig.	GE-B1/B2/B3 ; GER-B1/B2/B3
A	110
B	111
C	71
D	87
E	-
F	-
G	11
H	16
φI	36(F03) / 42(F04) / 50(F05)
J	4-M5 / 4-M6
Weight(Kg)	1



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Electric Actuator Model	GE-1/A/1H/AH/BH ; GER-1/A/1H/AH/BH				
Technical Specification	50/60Hz, 1 Phase , Multi-voltage, On/Off, Modulating type				
Specification	GE-1/GER-1	GE-A/GER-A	GE-1H/GER-1H	GE-AH/GER-AH	GE-BH/GER-BH
Max Torque(N.m)	35	50	35	50	80
Max Torque(lbf.in)	310	443	310	443	708
Operation Time/Sec 110V/220V@50Hz	11	15	11	15	22
Operation Time/Sec @24V	8	10	8	10	15
Power (Watts)	10				
Standard Voltage	1 Phase : 50 Hz AC 220 / 230 / 240 , 60 Hz AC 110 / 120 / 220 / 230 / 240, ±10 %				
Optional Voltage	AC / DC 24V				
Control Signal	On/Off, digital signal; Modulating, 4~20mA or 0-10V or 2-10V				
Feedback Signal	On/Off - Dry contact position feedback; (rated 5A @250V AC) Modulating - 4-20mA or 0-10V or 2-10V position analog feedback ;				
Duty Cycle	On/Off: S2~15min (≤ 60 starts per hour), Modulating: S4~50% (≤ 600 trigger per hour)				
Enclosure	IP67				
Motor Stall Protection	F grade motor with built in thermal protection (Open 135° ± 5%, Close 90° ± 5%) (Only single phase)				
Space Heater	Anti condensation heating resistance				
Manual Override	Manual lever operated		Non clutch handwheel for automatic manual switch		
Mechanical Stopper	1 each				
Limit Switches	1 x Open / Close, 5A @250VAC, 1 x open/close auxiliary limit switches				
Gear type	Spur gear				
Indicator	3D position indicator				
External Coating	Epoxy Powder Coating				
Travel Angle	90° (± 5°)				
Ambient Temperature	-25 °C ~ +70 °C				
Housing	Alluminium alloy (Optional plastic cover)				
Valve Coupling	F03 / F05 / F07				
Multi-drilled	F03 + F05 + F07 (With 17mm SQ drive only F05+F07 available)				
Square drive size	11mm / 14mm / 17mm				
Max. Valve Stem length	20mm				

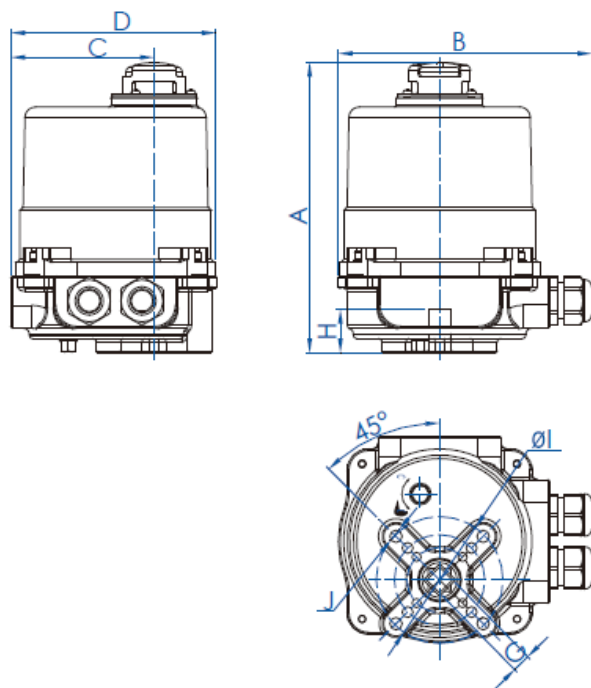


Optional features		
Enclosure	IP68 (15m under water for max. 72 hours)	
Motor	H grade motor (75% duty cycle)	
Positional Feedback	1K Ω Potentiometer unit (Ω value can be customized)	
Explosion Proof	N/A	ATEX / Nepsi / IECEx / CSA / Ex d IIC T4~6 Gb Ex tb IICT135°C
Fail-Safe	Lithium battery fail safe	
	Super capacitor fail safe	
Coating	NEMA4 / 4X anti corrosion epoxy coating	
Control unit	Lamp display / Control knobs (Local/Remote, Open/Close/Stop)	

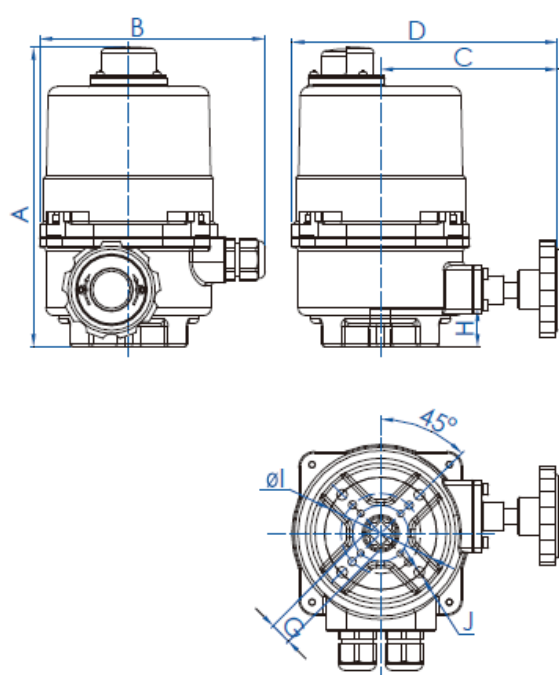
■ Dimension(mm)

Fig.	GE-1/GER-1	GE-A/GER-A	GE-1H/GER-1H	GE-AH/GER-AH	GE-BH/GER-BH
A-On/Off Type	165		192		
A-Modulating Type	185		212		
B	150				
C-On/Off Type	82		135		
C-Modulating Type	82		135		
D-On/Off Type	118		170		
D-Modulating Type	118		170		
G	11 / 14		11 / 14 / 17		
H	20				
φI	36 / 50 / 70				
J	4-M5 / 4-M6 / 4-M8				
Weight(Kg)-On/Off Type	3		3.6		
Weight(Kg)-Modulating Type	3.2		3.8		

FE-1/A ; FER-1/AH



FE-1H/AH/BH ; FER-1H/AH/BH



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Electric Actuator Model	GE-2/3/3A/4/5/6/7/7A/8/8A/9 ; GER-2/3/3A/4/5/6/7/7A/8/8A/9										
Technical Specification	50/60Hz, 1 Phase/3 Phase , Multi-voltage, On/Off, Modulating type										
Fig.	GE-2 /GER-2	GE-3 /GER-3	GE-3A /GER-3A	GE-4 /GER-4	GE-5 /GER-5	GE-6 /GER-6	GE-7 /GER-7	GE-7A /GER-7A	GE-8 /GER-8	GE-8A /GER-8A	GE-9 /GER-9
Max Torque(N.m)	100	200	300	400	600	800	1000	1300	1700	2000	2300
Max Torque(lbf.in)	885	1770	2655	3540	5310	7080	8850	11505	15045	17700	20355
Operation Time(Sec) @ 110/220/380VAC	19	39	39	29	39	47	47	47	34	34	47
Operation Time(Sec) @ 24V	14	28	28	21	28	34	34	-	-	-	-
Power (Watts)	40			90			120		200		
Standard Voltage	1 Phase : 50 Hz AC 220 / 230 / 240 , 60 Hz AC 110 / 120 / 220 / 230 / 240, ±10 %										
Optional Voltage	3 Phase : 50 Hz AC 220 / 240 / 380 / 400 / 460, 60 Hz AC 220 / 230 / 240 / 380 / 440 / 460 / 480, ±10 %										
	AC / DC 24V										
Control Signal	On/Off digital signal; Modulating, 4~20mA or 0-10V or 2-10V										
Feedback Signal	On/Off - Dry contact position feedback; (rated 5A @250V AC) Modulating - 4-20mA or 0-10V or 2-10V position analog feedback ;										
Duty Cycle	On/Off: S2~15min (≤ 60 starts per hour), Modulating: S4~50% (600 trigger per hour)										
Enclosure	IP67										
Motor Stall Protection	F grade motor with built in thermal protection (Open 135° ± 5%, Close 90° ± 5%) (Available to AC current motor)										
Space Heater	Anti condensation alloy heating resistance										
Manual Override	Standard handwheel, Non-Clutch mechanism for automatic manual switch										
Mechanical Stopper	1 each, external adjustable for open and close travels										
Limit Switches	1 x Open / Close, 5A @250VAC Switches, 1 x open/close auxiliary limit switches										
Gear type	Planetary eccentric gear										
Indicator	3D position indicator										
External Coating	Epoxy Powder Coating										
Travel Angle	90° (± 5°)										
Ambient Temperature	-25 °C~+70 °C										



Housing	Alluminium alloy
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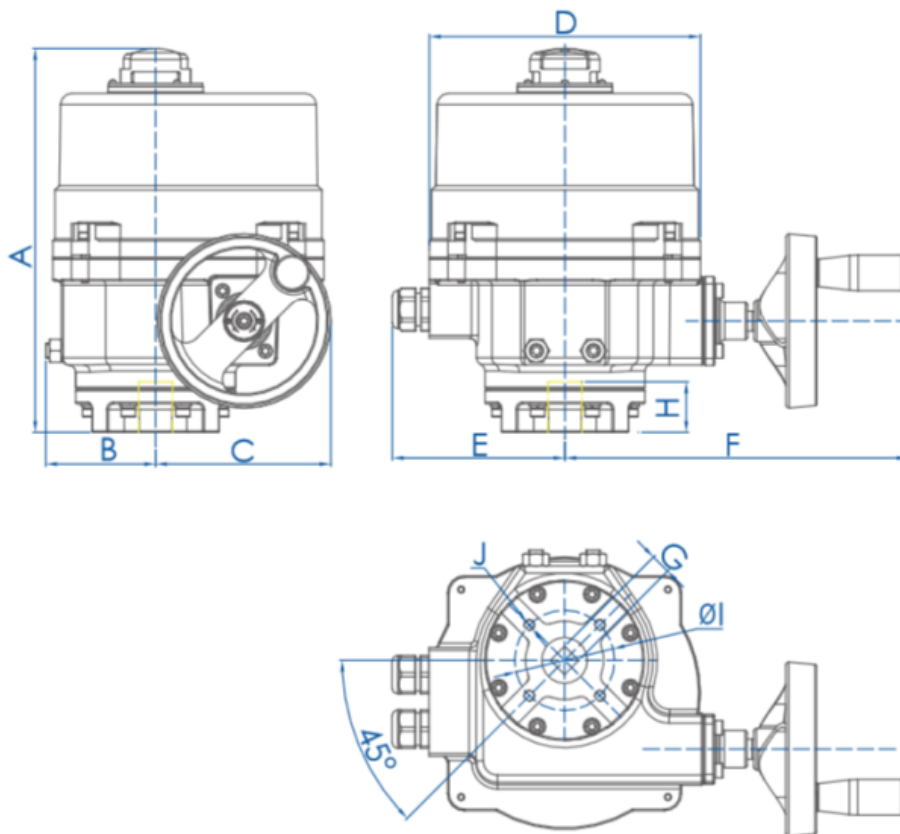
Optional features	
Torque Switch	1 x Open / Close, 5A @250VAC
Enclosure	IP68 (15m under water for max. 72 hours)
Motor	H grade motor (75% duty cycle)
Positional Feedback	1K Ω Potentiometer unit / 4-20mA feedback
Explosion Proof	ATEX / Nepsi / IECEx / CSA / Ex d IIC T4~6 Gb Ex tb IICT135°C or Ex d IIC T4~6 Gb Ex tb IICT135°C
Local Control Unit	Knob type: Open / Stop / Close / Local / Remote
	Infrared remote controller for non intrusive menu setting
Local Display Unit	Lamp display type: Open / Stop / Close
	LCD display type: Open / Close percentage
Communication Bus	Modbus / Profibus (Available for LCD display unit model)
Fault Feedback	Fault signal: Power lost / motor overheating / lack of phase / over torque / lost of signal
Fail-Safe	Lithium battery fail safe: (Only with model not exceeding 1000N.m.)
Coating	NEMA4 / 4X anti corrosion epoxy coating
Phase Correction	Automatic phase sequence correction (Only for 3 phase)

ISO 5211 Mounting	GE-2 /GER-2	GE-3 /GER-3	GE-3A /GER-3A	GE-4 /GER-4	GE-5 /GER-5	GE-6 /GER-6	GE-7 /GER-7	GE-7A /GER-7A	GE-8 /GER-8	GE-8A /GER-8A	GE-9 /GER-9
Valve Coupling	F05 / F07 / F10 / F12			F10 / F12 / F14				F12 / F14 / F16			
Multi-drilled	F07 + F10			F10 + F12				N/A			
Square drive size	14mm / 17mm / 22mm			22mm / 27mm / 30mm				27mm/30mm/36mm/37mm			
Max. Diameter	22mm			35mm				45mm			
Max. Two Flat	22mm			30mm				37mm			
Max. Valve Stem length	35mm			55mm				65mm			



■ Dimension(mm)

ISO 5211 Mounting	GE-2 /GER-2	GE-3 /GER-3	GE-3A /GER-3A	GE-4 /GER-4	GE-5 /GER-5	GE-6 /GER-6	GE-7 /GER-7	GE-7A /GER-7A	GE-8 /GER-8	GE-8A /GER-8A	GE-9 /GER-9
A	268			327				380			
B	77			103				127			
C	123			187				242			
D	216			266				293			
E	121			150				161			
F	240			297				333			
G	14 / 17 / 22			22 / 27 / 30				27 / 30 / 36 / 37			
H	35			55				65			
φI	50 / 70 / 102 / 125			102 / 125 / 140				125 / 140 / 165			
J	4-M8			4-M10 / 4-M12			4-M12		4-M12		4-M16
Weight(Kg)	11			22				36			



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Electric Actuator Model	GE-10/11/12 ; GER-10/11/12		
Technical Specification	50/60Hz, 1 Phase/3 Phase , AC, On/Off, Modulating type		
Fig.	GE-10 / GER-10	GE-11 / GER-11	GE-12 / GER-12
Max Torque(N.m)	3500	5000	8000
Max Torque(lbf.in)	30975	44250	70800
Operation Time(Sec)	76	105	143
Power (Watts)	200		
Standard Voltage	1 Phase : 50 Hz AC 220 / 230 / 240 , 60 Hz AC 110 / 120 / 220 / 230 / 240, ±10 %		
Optional Voltage	3 Phase : 50 Hz AC 220 / 240 / 380 / 400 / 460 , 60 Hz AC 220 / 230 / 240 / 380 / 440 / 460 / 480, ±10 %		
Control Signal	On/Off digital signal; Modulating, 4~20mA or 0-10V or 2-10V		
Feedback Signal	On/Off - Dry contact position feedback; (rated 5A @250V AC) Modulating - 4-20mA or 0-10V or 2-10V position analog feedback ;		
Duty Cycle	On/Off: S2~15min (≤ 60 starts per hour), Modulating: S4~50% (600 trigger per hour)		
Enclosure	IP67		
Motor Stall Protection	F grade motor with built in thermal protection (Open 135° ± 5%, Close 90° ± 5%)		
Space Heater	Anti condensation alloy heating resistance		
Manual Override	Standard handwheel, Non-Clutch mechanism for automatic manual switch		
Mechanical Stopper	1 each, external adjustable for open and close travels		
Limit Switches	1 x Open / Close, 5A @250VAC, 1 x open/close auxiliary limit switches		
Gear type	Planetary eccentric gear + gearbox		
Indicator	Mechanical pointer indicator		
External Coating	Epoxy Powder Coating		
Travel Angle	90° (± 5°)		
Ambient Temperature	-25 °C ~ +70 °C		
Housing	Alluminium alloy		
ISO 5211 Mounting	GE-10 / GER-10	GE-11 / GER-11	GE-12 / GER-12
Valve Coupling	F14 / F16	F16	F25
Square drive size	40mm / 46mm / 52mm		55mm / 65mm
Max. Diameter	75mm		130mm
Max. Two Flat	52mm		65mm
Max. Valve Stem length	85mm		130mm

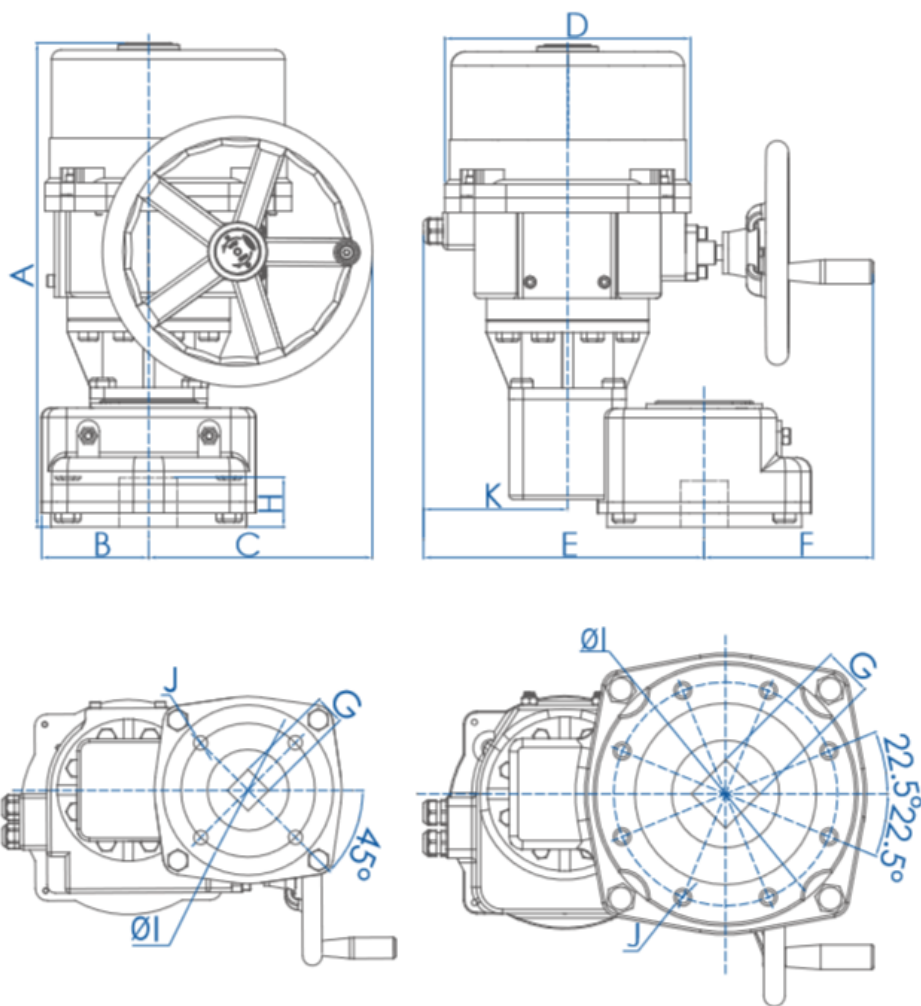


Optional features	
Torque Switch	Open / Close, 5A @250VAC
Enclosure	IP68 (15m under water for max. 72 hours)
Motor	H grade motor (75% duty cycle)
Positional Feedback	1KΩ Potentiometer unit / 4-20mA feedback
Explosion Proof	ATEX / Nepsi / IECEx / CSA / Ex d IIC T4~6 Gb Ex tb IICT135°C or Ex d IIC T4~6 Gb Ex tb IICT135°C
Local Control Unit	Knob type: Open / Stop / Close / Local / Remote
	Infrared remote controller for non intrusive menu setting
Local Display Unit	Lamp display type: Open / Stop / Close
	LCD display type: Open / Close percentage
Communication Bus	Modbus / Profibus (Available for LCD display unit model)
Fault Feedback	Fault signal: Power lost / motor overheating / lack of phase / over torque / lost of signal
Coating	NEMA4 / 4X anti corrosion epoxy coating
Phase Correctioin	Automatic phase sequence correction (Only for 3 phase)

■ Dimension(mm)

ISO 5211 Mounting	GE-10 / GER-10	GE-11 / GER-11	GE-12 / GER-12
A	532	532	545
B	118	118	160
C	242	242	242
D	293	293	293
E	308	308	343
F	186	186	16-
G	40 / 46 / 52	40 / 46 / 52	55 / 65
H	85	85	130
φI	40 / 165	165	254
J	4-M16 / 4-M20	4-M20	8-M16
Weight(Kg)	76	76	107







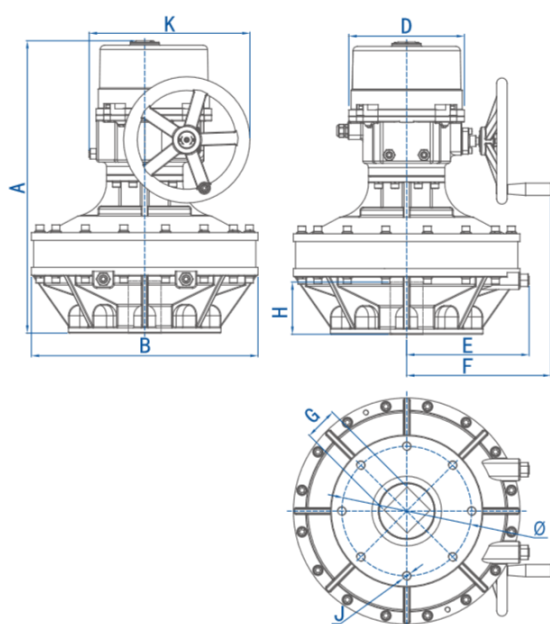
Electric Actuator Model	GE-13/14/15 ; GER-13/14/15		
Technical Specification	50/60Hz, 3 Phase , AC, On/Off, Modulating type		
Fig.	GE-13 / GER-13	GE-14 / GER-14	GE-15 / GER-15
Max Torque(N.m)	13000	16000	20000
Max Torque(lbf.in)	115050	141600	177000
Operation Time(Sec)	109	129	155
Power (Watts)	400		
Standard Voltage	3 Phase : 50 Hz AC 220 / 240 / 380 / 400 / 460, 60 Hz AC 220 / 230 / 240 / 380 / 440 / 460 / 480, $\pm 10\%$		
Control Signal	On/Off digital signal; Modulating, 4~20mA or 0-10V or 2-10V		
Feedback Signal	On/Off - Dry contact position feedback; (rated 5A @250V AC) Modulating - 4-20mA or 0-10V or 2-10V position analog feedback ;		
Duty Cycle	On/Off: S2~15min (≤ 60 starts per hour), Modulating: S4~30% (600 trigger per hour)		
Enclosure	IP67		
Motor Stall Protection	F grade motor with built in thermal protection (Open $135^\circ \pm 5\%$, Close $90^\circ \pm 5\%$)		
Space Heater	Anti condensation alloy heating resistance		
Manual Override	Standard handwheel, Non-Clutch mechanism for automatic manual switch		
Mechanical Stopper	1 each, external adjustable for open and close travels		
Limit Switches	1 x Open / Close, 5A @250VAC, 1 x open/close auxiliary limit switches		
Gear type	Planetary eccentric gear + gearbox		
Indicator	Mechanical pointer indicator		
External Coating	Epoxy Powder Coating		
Travel Angle	$90^\circ (\pm 5^\circ)$		
Ambient Temperature	$-25^\circ\text{C} \dots +70^\circ\text{C}$		
Housing	Alluminium alloy		
ISO 5211 Mounting	GE-13/14/15 ; GER-13/14/15		
Valve Coupling	F25 / F30		
Square drive size	55mm / 65mm / 75mm / 80mm		
Max. Diameter	120mm		
Max. Two Flat	110mm		
Max. Valve Stem length	120mm		



Optional features	
Torque Switch	Open / Close, 5A @250VAC
Enclosure	IP68 (15m under water for max. 72 hours)
Motor	H grade motor (75% duty cycle)
Positional Feedback	1K Ω Potentiometer unit / 4-20mA feedback
Explosion Proof	ATEX / Nepsi / IECEx / CSA / Ex d IIC T4~6 Gb Ex tb IIIC T135°C or Ex d IIC T4~6 Gb Ex tb IIIC T135°C
Local Control Unit	Knob type: Open / Stop / Close / Local / Remote
	Infred red remote controller for non intrusive menu setting
Local Display Unit	Lamp display type: Open / Stop / Close
	LCD display type: Open / Close percentage
Communication Bus	Modbus / Profibus (Available for LCD display unit model)
Fault Feedback	Fault signal: Power lost / motor overheating / lack of phase / over torque / lost of signal
Coating	NEMA4 / 4X anti corrosion epoxy coating
Phase Correctioin	Automatic phase sequence correction (Only for 3 phase)

■ Dimension(mm)

ISO 5211 Mounting	GE-13 / GER-13	GE-14 / GER-14	GE-15 / GER-15
A	672		
B	520		
C	-		
D	293		
E	281		
F	331		
G	55 / 65 / 75 / 80		
H	120		
ϕI	254	298	
J	8-M16	8-M20	
Weight(Kg)	218		



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