

ELECTRIC ACTUATOR – ER, VR, VRX, VS, VSX VERSION VT, VTX - STANDARD, FAILSAFE OR WITH POSITIONER



ER Verion



VR Version



VRX (Atex) Version



VS Version



VSX (Atex) Version



VT Version

MAIN FEATURES

- Compact design with IP66 protection and UL94V0 flammability class housing
- Torque from 10 to 2400Nm
- Operating time : 7s to 119s
- Duty rating : from 30 to 50% (IEC34 Standard)
- ISO 5211 Standard connection
- Modular position indicator (with handle for ER10-20)
- Declutching system for secured manual override
- Integrated anti-condensation self-regulated heater
- Torque limiter monitored by built-in software
- Failure feedback relay
- RS485 connection to enable remote control (on request)
- Guaranteed for 50 000 actuations or 3 years*
- Up to 150 starts/hour**
- Compliant with RoHs and REACH
- 3-point modulating or On-Off Control
- Available in Multi-Voltages:
 - 15V to 30V AC(50/60Hz) and 12V to 48V DC
 - 100V to 240V AC(50/60Hz) and 100V to 350V DC
 - 400V three phase (50/60Hz)
- Mechanical travel stops
- Various Possible rotation Angles
- ATEX version available for certain models

* Tested on testing bench in the worst conditions (maximal torque and duty rating).

** Recommended use, see instructions notice

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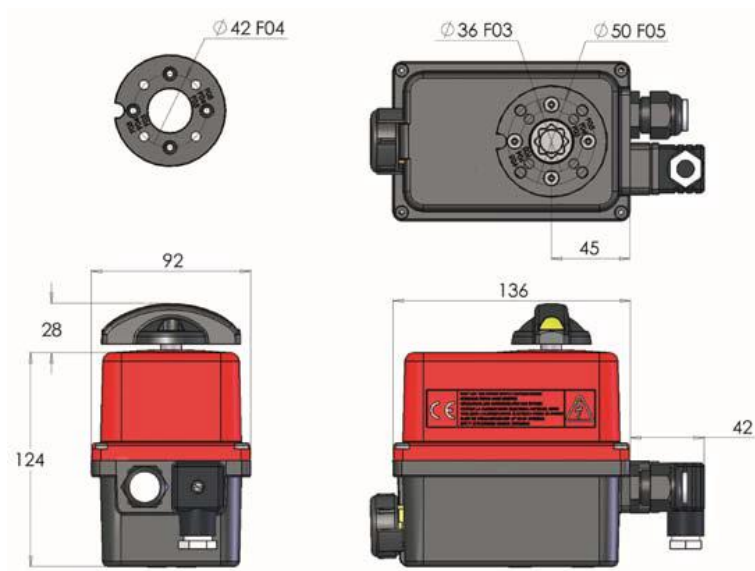
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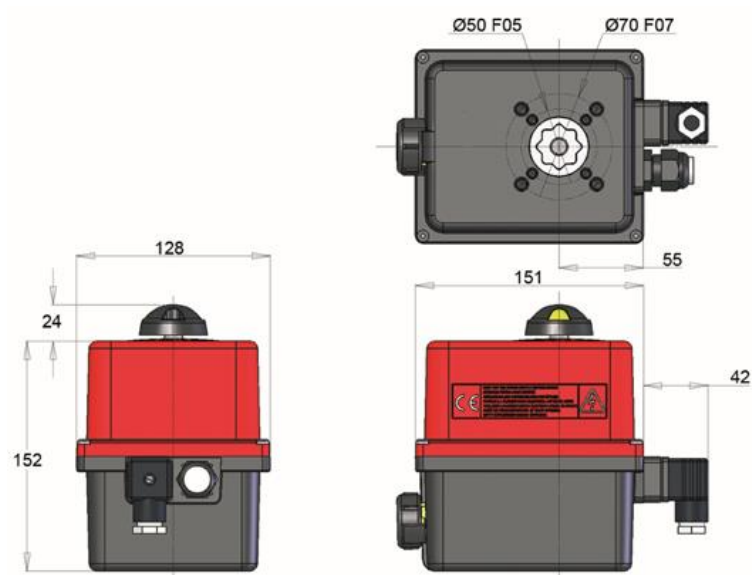
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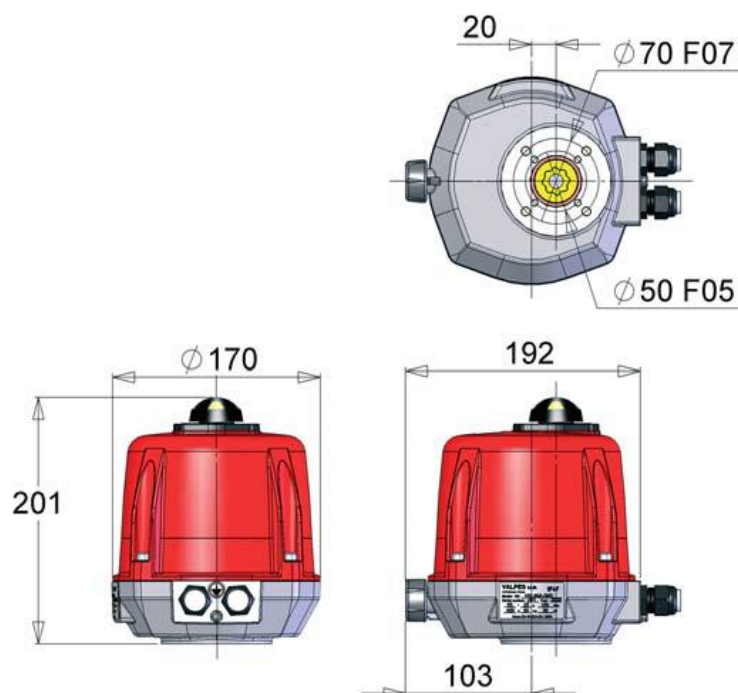
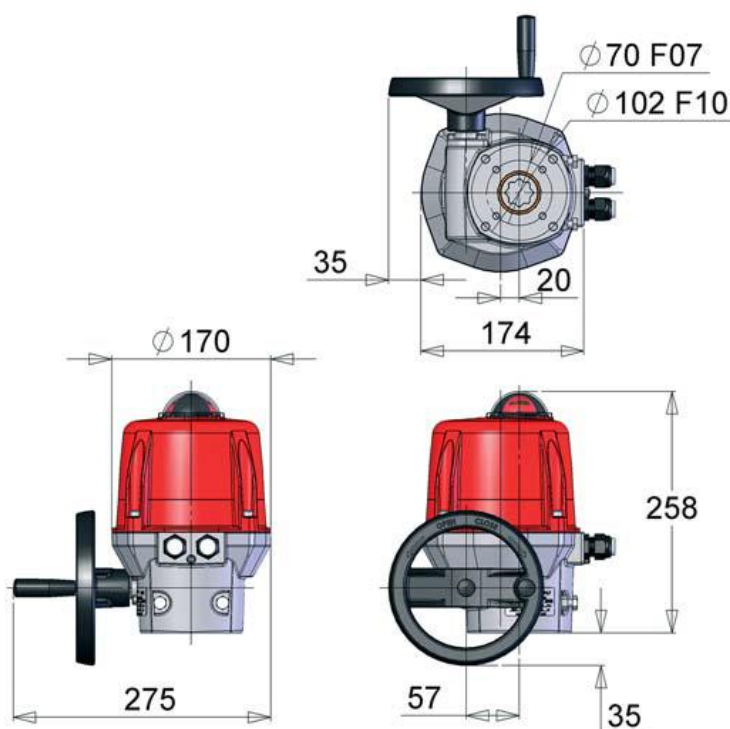
DIMENSIONS

ER 10-20 VERSION



ER 35-60-100 VERSION

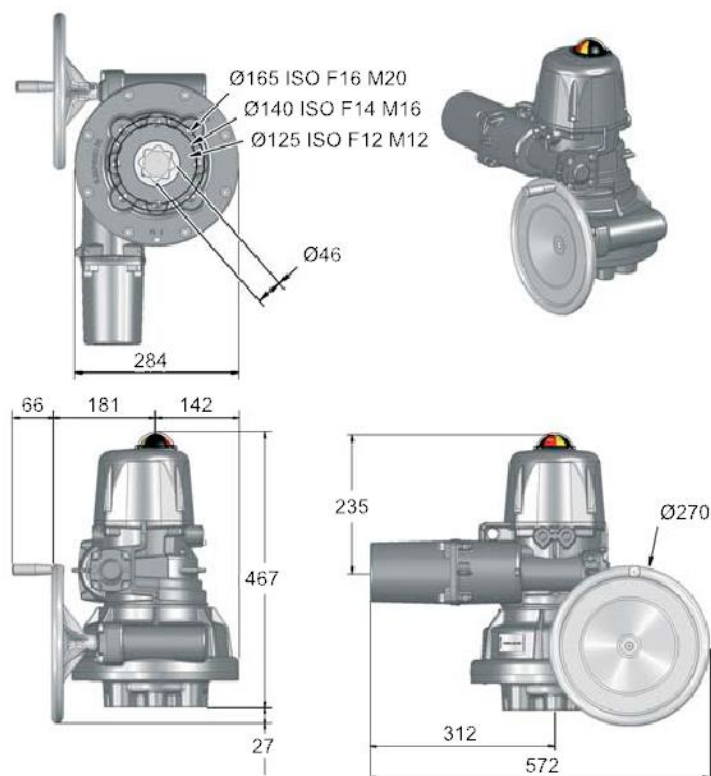


VR/VRX VERSION**VS/VSX VERSION**

VT/VTX 600 – 1000 VERSION



VT/VTX 1500 – 2400 VERSION



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CHARACTERISTICS

	ER	VR/VRX (ATEX)	VS/VSX (ATEX)	VT
Voltages	15-30V AC 50/60 Hz (12V to 48V DC) 100-240V AC 50/60 Hz (100V to 350V DC)	15-30V AC 50/60 Hz (12V to 48V DC) 100-240V AC 50/60 Hz (100V to 350V DC) 400V Three phase 50/60 Hz	15-30V AC 50/60 Hz (12V to 48V DC) 100-240V AC 50/60 Hz (100V to 350V DC) 400V Tree phase 50/60 Hz	230V AC 50/60 Hz 400V Tree phase 50/60 Hz
Operating Time	- ER10 = 11s - ER20 = 12s - ER35 = 7s - ER60 = 12s - ER100 = 23s	- VR25/VRX25 = 7s - VR45/VRX45 = 15s - VR75/VRX75 = 20s	- VS100/VSX100 = 15s - VS150/VSX150 = 30s - VS300/VSX300 = 60s	- VT 600 = 38s - VT 1000 = 38s - VT 1500 = 113s - VT 2400 = 113s
Duty Rating	50%	50% (80% On Request)	50% (80% On Request)	50%
Power Consumption	- ER 10-20 : 15W - ER 35-100 : 45W	45W 52W to 135W on the Three phase models.	45W 52W à 135W on the Three phase models.	250W
Enclosure	IP66	IP68 Ex d IIB T6 Gb - Ex tb IIIC T80°C Db (T5 and T95°C for FAILSAFE et 400V)	IP68 Ex d IIB T6 Gb - Ex tb IIIC T80°C Db (T5 and T95°C for FAILSAFE and 400V)	IP68 II 2 G D - Ex d IIB T5 Gb Ex tb IIIC T90°C Db
Limit Switch	4	4	4	4
Electric Connection	1x 3P+T DIN43650 connector + 1x ISO M20	2x ISO M20	2x ISO M20	2x ISO M20
Anti-condensation Heater	Series	Series	Series	Series
Rotation Angle	0-90° (on request 0-180° or 0-270°)	0-90° (on request 0-180° or 0-270°)	0-90° (on request 0-180° or 0-270°)	0-90° (on request 0-180° or 0-270°)
ISO 5211 Connection	- ER 10-20 : F03-F04-F05 / EF14 - ER 35-100 : F05-F07 / EF22	VR/VRX : F05-F07 / EF17	VS/VSX : F07-F10 / EF22	- VT600-1000 : F10-F12 / EF36 - VT1500-2400 : F12-F14-F16 / EF46
Maximum Torque	- ER10 = 10 N.m - ER20 = 20 N.m - ER35 = 35 N.m - ER60 = 60 N.m - ER100 = 100 N.m	- VR/VRX25 = 25 N.m - VR/VRX45 = 45 N.m - VR/VRX75 = 75 N.m	- VS/VSX100 = 100 N.m - VS/VSX150 = 150 N.m - VS/VSX300 = 300 N.m	- VT/VTX600 = 600 N.m - VT/VTX1000 = 1000 N.m - VT/VTX1500 = 1500 N.m - VT/VTX2400 = 2400 N.m
Nominal Torque	- ER10 = 10 N.m - ER20 = 20 N.m - ER35 = 35 N.m - ER60 = 60 N.m - ER100 = 100 N.m	- VR/VRX25 = 20 N.m - VR/VRX45 = 35 N.m - VR/VRX75 = 60 N.m	- VS/VSX100 = 75 N.m - VS/VSX150 = 125 N.m - VS/VSX300 = 250 N.m	- VT/VTX600 = 450 N.m - VT/VTX1000 = 750 N.m - VT/VTX1500 = 1000 N.m - VT/VTX2400 = 2000 N.m
Number of Starts/Hour	150 Starts / Hours	150 Starts / Hours	150 Starts / Hours	150 Starts / Hours
Working Temperature	-10°C to +55°C (FAILSAFE : -10°C to +40°C)	-20°C to +70°C (FAILSAFE : -10°C to +40°C)	-20°C to +70°C (FAILSAFE : -10°C to +40°C)	-20°C to +70°C (FAILSAFE : -10°C to +40°C)
Weight	- ER 10-20 : 1Kg/1,2Kg - ER35-100 : 2,1Kg/2,3Kg	VR/VRX : 3,1Kg/3,5Kg	VS/VSX : 5,1Kg/5,5Kg	- VT600-1000 : 24Kg - VT1500-2400 : 53Kg

	ER	VR/VRX (ATEX)	VS/VSX (ATEX)	VT
Available Version in Standard	▪ FAILSAFE : Security unit which ensures return to initial position in case of power failure ▪ POSI : Advanced and easily positioning solution ▪ 3 POSITIONS : Version allowing an intermediate position ▪ Bluetooth® : Communicating actuators	▪ FAILSAFE : Security unit which ensures return to initial position in case of power failure ▪ POSI : Advanced and easily positioning solution ▪ 3 POSITIONS : Version allowing an intermediate position ▪ Bluetooth® : Communicating actuators	▪ FAILSAFE : Security unit which ensures return to initial position in case of power failure ▪ POSI : Advanced and easily positioning solution ▪ 3 POSITIONS : Version allowing an intermediate position ▪ Bluetooth® : Communicating actuators	▪ FAILSAFE : Security unit which ensures return to initial position in case of power failure ▪ POSI : Advanced and easily positioning solution ▪ 3 POSITIONS : Version allowing an intermediate position
Available Options	▪ Two extra limit switches card ▪ Feedback potentiometer ▪ 0-10V, 0-20mA or 4-20mA Transmitter ▪ 1 or 2 M12 3P+T connectors ▪ 2nd 3P+T DIN43650 Connector	▪ Two extra limit switches card ▪ Feedback potentiometer ▪ 0-10V, 0-20mA or 4-20mA Transmitter ▪ 1 or 2 M12 3P+T connectors ▪ Aluminium Housing	▪ Two extra limit switches card ▪ Feedback potentiometer ▪ 0-10V, 0-20mA or 4-20mA Transmitter ▪ 1 or 2 M12 3P+T connectors ▪ Aluminium Housing	▪ Two extra limit switches card ▪ Feedback potentiometer ▪ 0-10V, 0-20mA or 4-20mA Transmitter ▪ 2nd 3P+T DIN43650 Connector

Multiple Options Available : Contact us for more information

DETERMINING THE PRODUCT CODE OF AN ACTUATOR

STANDARD Electric Actuator			
CODE		TYPE	ISO 5211 CONNECTION (CONNECTION/DSQ*)
VOLTAGE			
100-240 V AC 100-350 V DC	15-30 V AC 12-48 V DC		
2907-39A	2907-39B	ER10	F03-F04-F05 / 14
2907-40C	2907-40A	ER20	F05 / 14
2907-41R	2907-41N	ER35	F05-F07 / 22
2907-43B	2907-43F	ER60	F05-F07 / 22
2907-49B	2907-49D	ER100	F05-F07 / 22
2907-50J	2907-50A	VR25	F05-F07 / 17
2907-42B	2907-42D	VR45	F05-F07 / 17
2907-44B	2907-44A	VR75	F05-F07 / 17
2907-45B	2907-45M	VS100	F07-F10 / 22
2907-46A	2907-46C	VS150	F07-F10 / 22
2907-47A	2907-47C	VS300	F07-F10 / 22
2907-48A	/	VT600	F10-F12 / 36
2907-51A	/	VT1000	F10-F12 / 36
2907-52A	/	VT1500	F12-F16 / 46
2907-53A	/	VT2400	F12-F16 / 46

*DSQ=Double square drive

FAILSAFE Electric Actuator			
CODE		TYPE	ISO 5211 CONNECTION (CONNECTION/DSQ*)
VOLTAGE			
100-240 V AC 100-350 V DC	15-30 V AC 12-48 V DC		
2907-39E	2907-39F	ER10	F03-F04-F05 / 14
2907-40F	2907-40D	ER20	F05 / 14
2907-41M	2907-41P	ER35	F05-F07 / 22
2907-43N	2907-43M	ER60	F05-F07 / 22
2907-49G	2907-49H	ER100	F05-F07 / 22
2907-50N	2907-50L	VR25	F05-F07 / 17
2907-42E	2907-42F	VR45	F05-F07 / 17
2907-44L	2907-44M	VR75	F05-F07 / 17
2907-45K	2907-45L	VS100	F07-F10 / 22
2907-46B	2907-46E	VS150	F07-F10 / 22
2907-47F	2907-47D	VS300	F07-F10 / 22
Contact us	/	VT600	F10-F12 / 36
Contact us	/	VT1000	F10-F12 / 36
Contact us	/	VT1500	F12-F16 / 46
Contact us	/	VT2400	F12-F16 / 46

*DSQ=Double square drive

Electric Actuator WITH POSITIONER 4-20mA			
CODE		TYPE	ISO 5211 CONNECTION (CONNECTION/DSQ*)
VOLTAGE			
100-240 VAC 100-350 VDC	15-30 VAC 12-48 VDC		
2907-39E	2907-39F	ER10	F03-F04-F05 / 14
2907-40E	2907-40P	ER20	F05 / 14
2907-41J	2907-41Q	ER35	F05-F07 / 22
2907-43D	2907-43J	ER60	F05-F07 / 22
2907-49I	2907-49E	ER100	F05-F07 / 22
2907-50Q	2907-50P	VR25	F05-F07 / 17
2907-42G	2907-42H	VR45	F05-F07 / 17
2907-44N	2907-44O	VR75	F05-F07 / 17
2907-45J	2907-45N	VS100	F07-F10 / 22
2907-46G	2907-46F	VS150	F07-F10 / 22
2907-47G	2907-47E	VS300	F07-F10 / 22
Contact us	Contact us	VT600	F10-F12 / 36
Contact us	Contact us	VT1000	F10-F12 / 36
Contact us	Contact us	VT1500	F12-F16 / 46
Contact us	Contact us	VT2400	F12-F16 / 46

*DSQ=Double square drive

Contact us for the V three phase, or ATEX (VRX, VSX and VTX) Version

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