

ROM and ROMpak Range



Redefining Flow Control



Quarter-turn Direct Drive
Electric Actuators

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rotork® Controls

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Rotork is the global market leader in valve automation and flow control. Our products and services are helping organisations around the world to improve efficiency, assure safety and protect the environment.

We strive always for technical excellence, innovation and the highest quality standards in everything we do. As a result, our people and products remain at the forefront of flow control technology.

Uncompromising reliability is a feature of our entire product range, from our flagship electric actuator range through to our pneumatic, hydraulic and electro-hydraulic actuators, as well as instruments, gear boxes and valve accessories.

Rotork is committed to providing first class support to each client throughout the whole life of their plant, from initial site surveys to installation, maintenance, audits and repair. From our network of national and international offices, our engineers work around the clock to maintain our position of trust.

Rotork. Redefining flow control.

Product Overview

As one of the world's leading manufacturers of actuation products, Rotork has built up an enviable reputation as the supplier of equipment which is both well developed and durable.

With over fifty years of experience of long term installation in all environments we have evolved a design of uncompromising reliability. With the addition of the ROM and ROMpak range, Rotork is complementing its offering of quarter-turn actuators with simple specification for small valves.

Rotork ROM and ROMpak Range Actuators:

- Small
- Compact
- Lightweight
- Efficient yet simple gearing
- On-off
- Single-phase, three-phase and DC versions
- Local control
- Phase rotation correction*

* ROMpak only.



The ROM and ROMpak Range

The ROM and ROMpak actuators provide quiet and reliable operation for all kinds of small ball valves and butterfly valves, as well as dampers and ventilation louvres. They provide self-locking as standard, local visual indicators and manual override options together with a wide range of voltages.

Features:

	ROM	ROMpak
Enclosure	IP68 (Nema 4, 4x) Waterproof - Dustproof	IP68 (Nema 4, 4x) Waterproof - Dustproof
Material	Aluminium Alloy	Aluminium Alloy and plastic
Finish	Dry powder coated	Dry powder coated and wet spray

Motor

- Standard duty cycle induction motor - S3.
F insulation class for ROM-1 to ROM-6 & ROM-A

Position Indicator

- All models have continuous position indication on the actuator top cover

Manual Override

- Non-clutch design, the manual operation can be operated without any lever, clutch or brake upon power outage.
- When the electric motor is operating, the manual override will not rotate except ROM-1 & ROM-A

Gear Train

- High alloy steel gear trains provide self-locking function to avoid valve back drive.
- Gear trains are factory lubricated with a wide temperature rated lubricant

Mechanical Stops

- Externally adjustable mechanical stops are provided on ROM-2, 3, 4, 5 & 6 actuators

Working Conditions

- Ambient temperature: -30 to +70 °C[†]
- Humidity: 30% to 95%

Various Options

- Anti-condensation heater
- Additional limit switches
- Conduit entries M20 x 1.5p
- Torque switches*

* Excluding ROM-1 & ROM-A.

† Excluding 12/24 VDC.

Certificates

- ISO 9001, CE

The ROMpak

The ROM range of actuators is now enhanced with the addition of the ROMpak actuator. The ROMpak has a self contained control package with local controls, status indication relays, isolated control circuits and support for Rotork control options such as Folomatic, Pakscan and other bus systems.

- Small, compact & lightweight
- Manual override
- Externally adjustable mechanical stops*
- Local control unit (local/remote, on/off)
- Status relays
- Phase rotation correction
- IP68 (7m-72hr)
- 12/24 VDC, 110/220 VAC single-phase and 220/380/440 VAC three-phase*, 50 Hz and 60 Hz
- Position indication via local mechanical indicator and LED's
- 30 to +70 °C[†] operation

* Excluding ROM-1 & ROM-A.

† Excluding 12/24 VDC.

Various Options:

- Bus communications including: Pakscan, Profibus®, Modbus and Foundation Fieldbus®.
- CPT & Folomatic

Operating Voltages:

ROM

	12 VDC	24 VDC	12 VAC	24 VAC	110 V/1	220 V/1	220 V/3	380 V/3	440 V/3
ROM-A	✓	✓	✓	✓	✓	✓	X	X	X
ROM-1	✓	✓	✓	✓	✓	✓	X	X	X
ROM-2,3	✓	✓	✓	✓	✓	✓	✓	✓	✓
ROM-4,5&6	✓	✓	✓	✓	✓	✓	✓	✓	✓

ROMpak

	12 VDC	24 VDC	12 VAC	24 VAC	110 V/1	220 V/1	220 V/3	380 V/3	440 V/3
ROMpak-A	✓	✓	X	X	✓	✓	X	X	X
ROMpak-1	✓	✓	X	X	✓	✓	X	X	X
ROMpak-2,3	✓	✓	X	X	✓	✓	✓	✓	✓
ROMpak-4,5&6	✓	✓	X	X	✓	✓	✓	✓	✓

Mechanical and Electrical Data

Mechanical Data ROM and ROMpak

Model	ROM Weight (kg)	ROMpak Weight (kg)	Manual override	Output Drive (mm)	Torque Nm/lbf.ft	Mounting base designation to ISO5211 imperial
ROM-A	2.8	4.7	Level	17/14	50/37	F05/F07
ROM-1	2	4	Level	14/11/9	35/26	F03/F05
ROM-2	10.9	13.1	Handwheel	22/17	90/67	F07
ROM-3	10.9	13.1	Handwheel	22/17	150/110	F07
ROM-4	25.1	27.1	Handwheel	36/35	400/295	F10
ROM-5	25.1	27.1	Handwheel	36/35	500/370	F10
ROM-6	25.1	27.1	Handwheel	36/35	650/480	F10

NOTE: Weight data based on single-phase 50Hz supply.

Electrical Performance Data

12V/24V – ROM and ROMpak*

Model No.	Torque (Nm)	Speed (sec/90°)		Motor Power (W)	Motor Speed (rpm)		12 VDC/VAC CURRENT (A)		24 VDC/VAC CURRENT (A)	
		50 Hz	60 Hz		50 Hz	60 Hz	Run	Lock	Run	Lock
ROM-A	50	30		3.75	1,700	1,700	1.2	2.4	0.6	1.2
ROM-1	35	20		3.75	1,700	1,700	1.2	2.4	0.6	1.2
ROM-2	90	17		43	1,360	1,360	2.5	15	1.1	9
ROM-3	150	28		43	1,360	1,360	2.5	15	1.1	9
ROM-4	400	23		130	1,250	1,250	11	40	5.5	20
ROM-5	500	30		130	1,250	1,250	11	40	5.5	20
ROM-6	650	38		130	1,250	1,250	11	40	5.5	20

*12/24 VAC not available for ROMpak.

Single-Phase – ROM and ROMpak

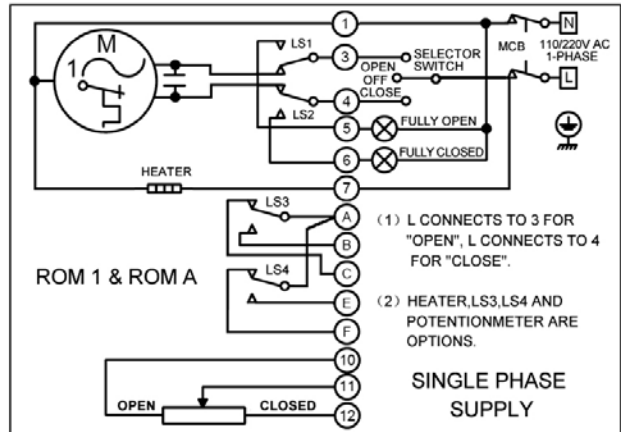
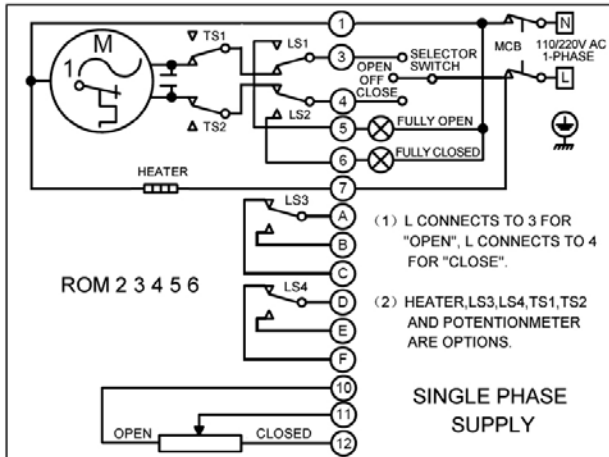
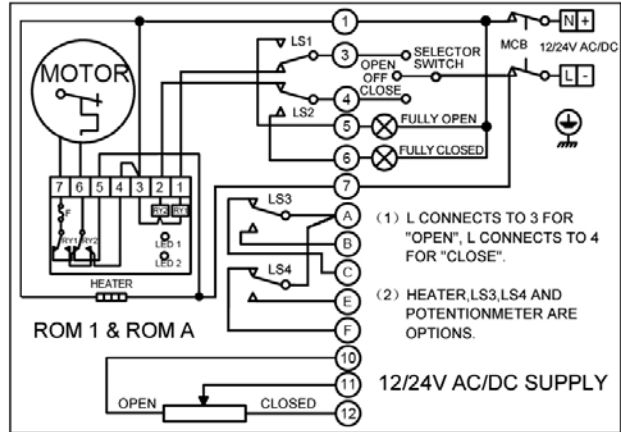
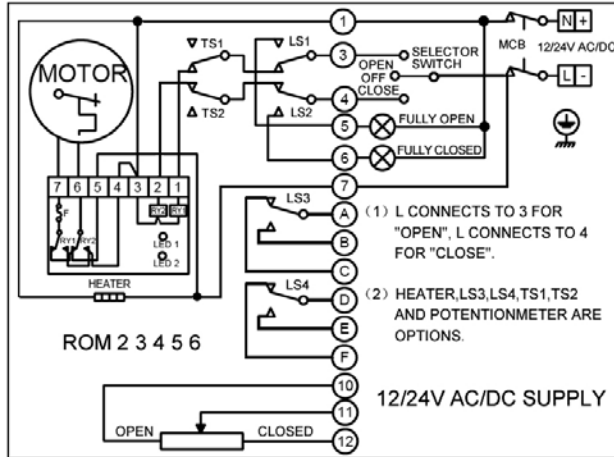
Model No.	Torque (Nm)	Speed (sec/90°)		Motor Power (W)	Motor Speed (rpm)		110 V CURRENT (A)		220 V CURRENT (A)	
		50 Hz	60 Hz		50 Hz	60 Hz	Run	Lock	Run	Lock
ROM-A	50	22	19	5	2,300	2,710	0.22	0.25	0.15	0.19
ROM-1	35	15	13	5	2,300	2,710	0.22	0.25	0.15	0.19
ROM-2	90	17	15	43	1,360	1,600	0.85	1.6	0.35	0.85
ROM-3	150	28	24	43	1,360	1,600	0.85	1.6	0.35	0.85
ROM-4	400	20	17	150	1,430	1,690	1.9	6	0.5	2.22
ROM-5	500	26	22	150	1,430	1,690	1.9	6	0.5	2.22
ROM-6	650	33	28	150	1,430	1,690	1.9	6	0.5	2.22

Three-Phase – ROM and ROMpak

Model No.	Torque (Nm)	Speed (sec/90°)		Motor Power (W)	Motor Speed (rpm)		220 V Current		380 V CURRENT (A)		440 V CURRENT (A)	
		50 Hz	60 Hz		50 Hz	60 Hz	Run	Lock	Run	Lock	Run	Lock
ROM-2	90	16	14	46	1,460	1,720	1	1.9	0.35	0.83	0.35	0.73
ROM-3	150	26	22	46	1,460	1,720	1	1.9	0.35	0.83	0.35	0.73
ROM-4	400	20	17	150	1,430	1,690	1.5	3.5	0.5	2	0.45	1.77
ROM-5	500	26	22	150	1,430	1,690	1.5	3.5	0.5	2	0.45	1.77
ROM-6	650	33	28	150	1,430	1,690	1.5	3.5	0.5	2	0.45	1.77

Circuit Diagram and Optional Extras

ROM Wiring Diagram



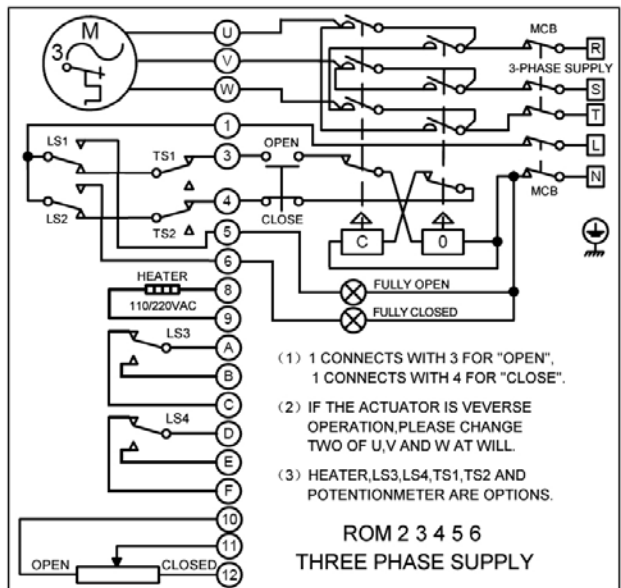
Optional Extras:

Torque Switches

Cam activated torque switches to provide torque overload protection ROM-2, 3, 4, 5 & 6.

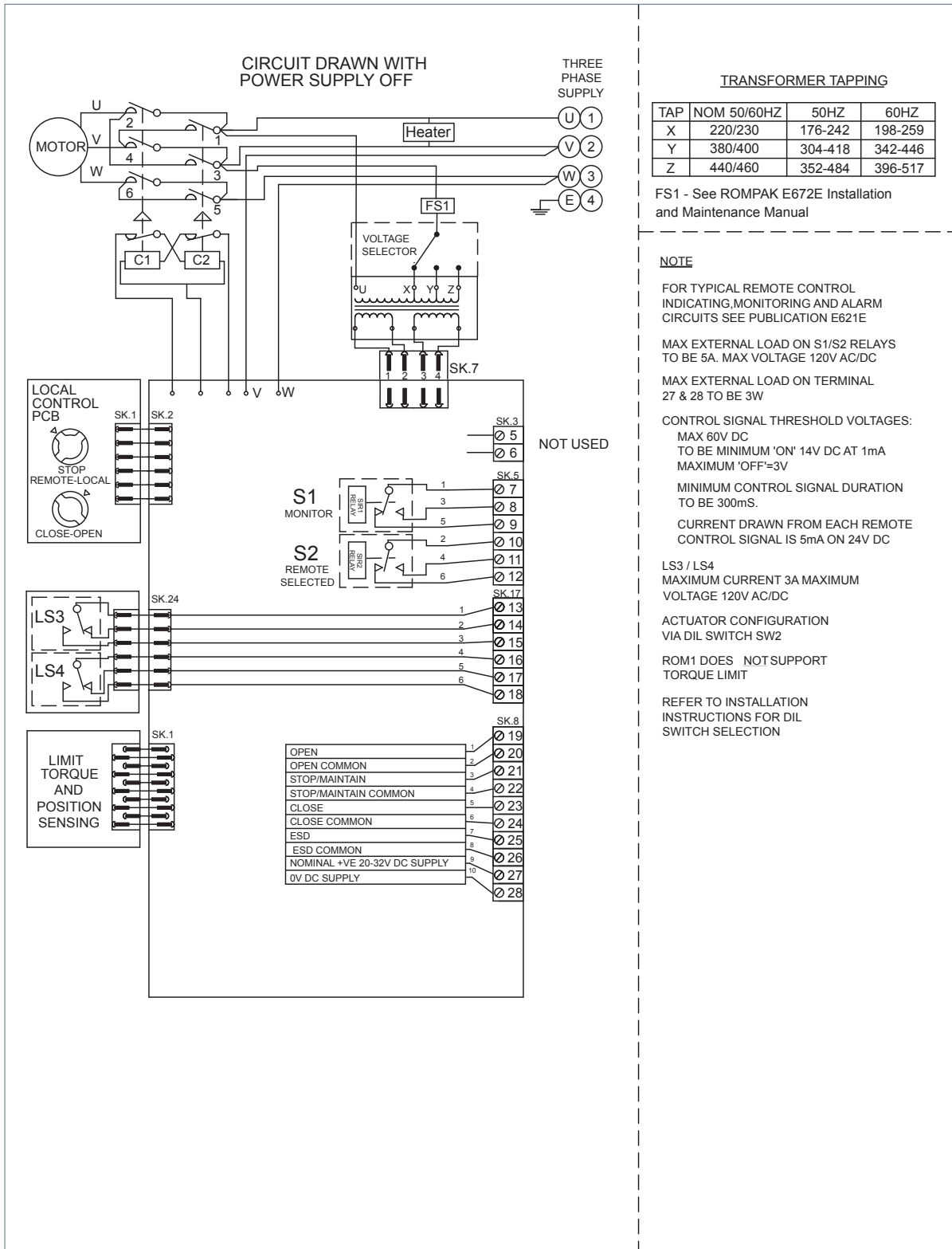
Anti-condensation Heater

This heater is available for all sizes.



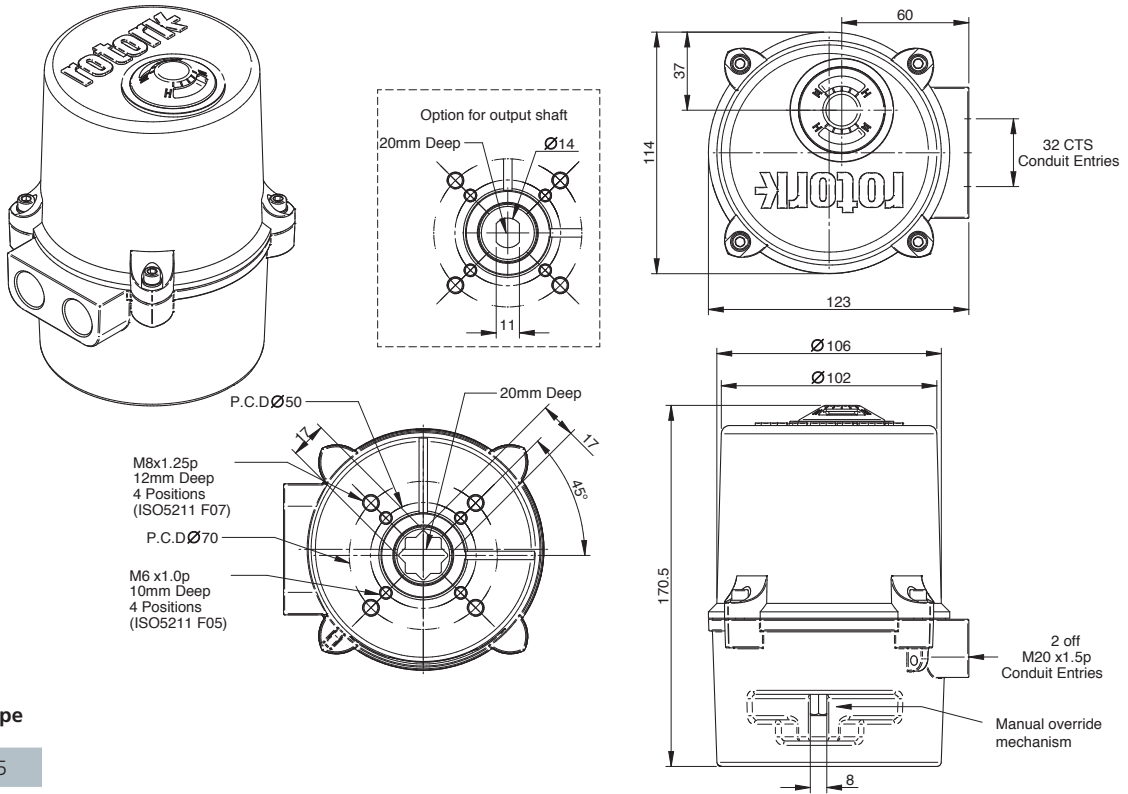
Circuit Diagram and Optional Extras

ROMpak Three-Phase Wiring Diagram

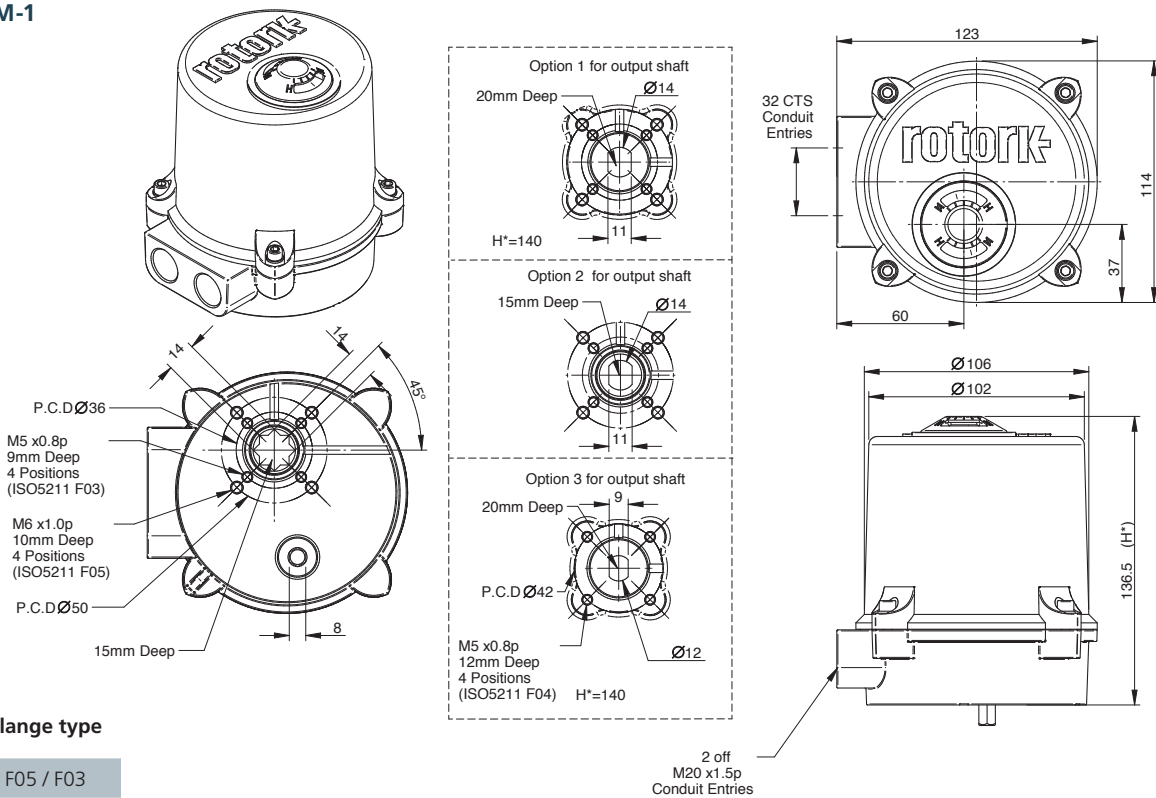


Dimensional Data

ROM-A

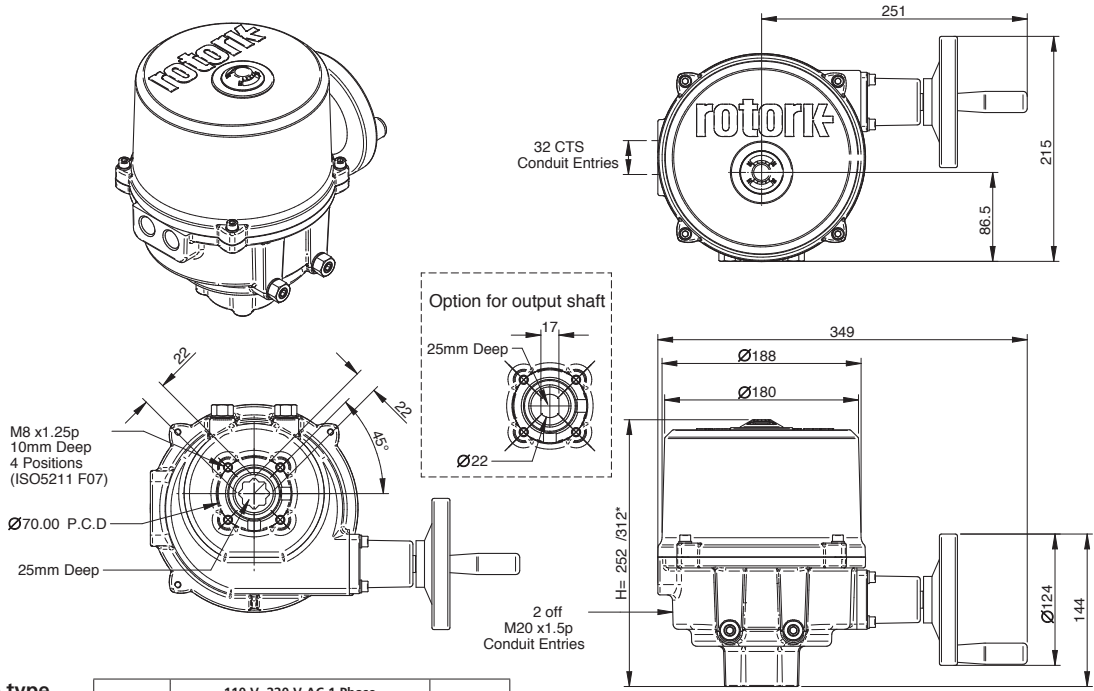


ROM-1



Dimensional Data

ROM-2/3

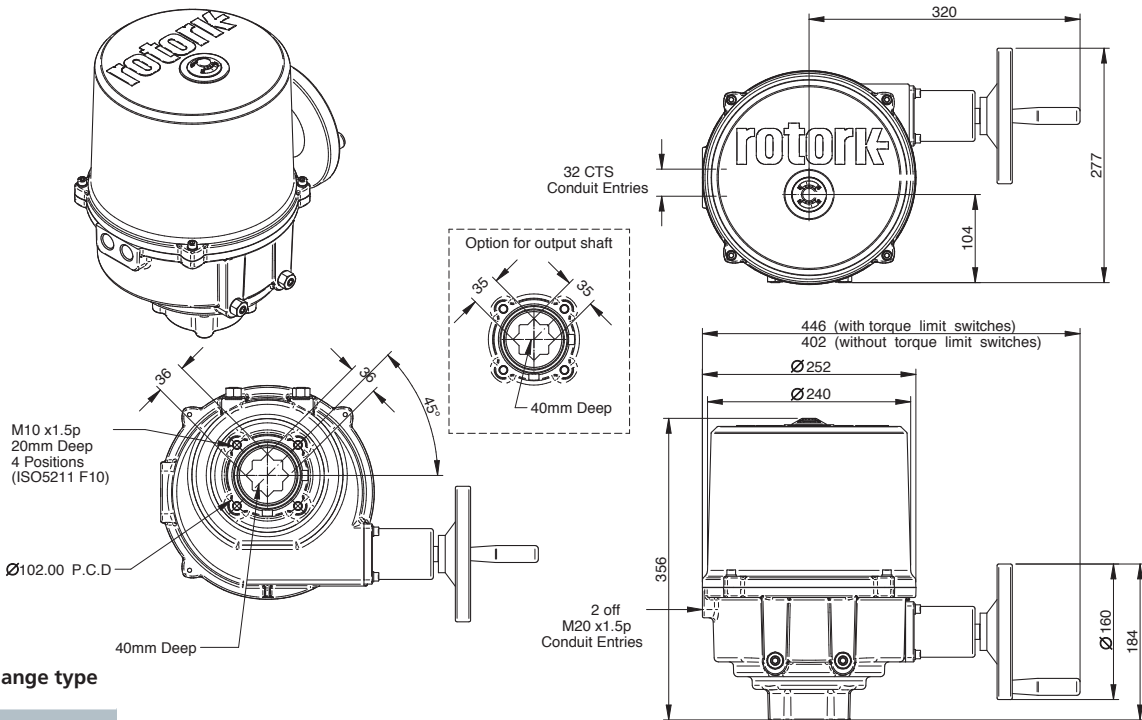


Flange type

F07

*ROM-2/3	110 V, 220 V AC 1-Phase	H=252
	220 V, 380 V, 440 V AC three-phase	H=252
	12 V, 24 V AC/DC	H=312

ROM-4/5/6

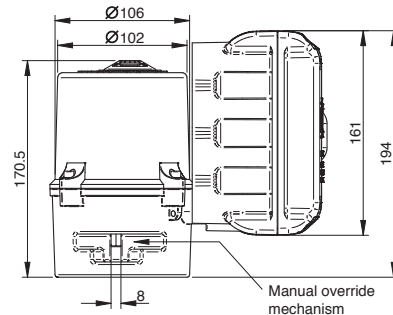
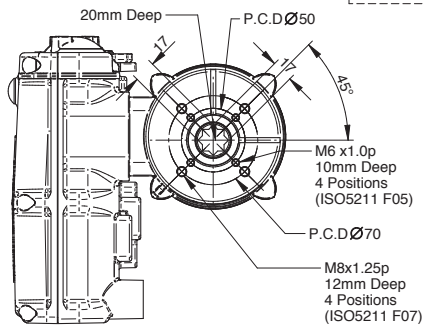
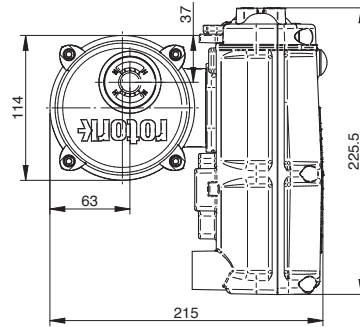
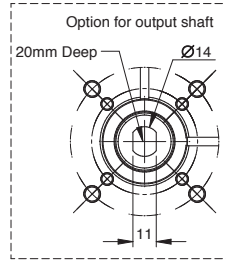
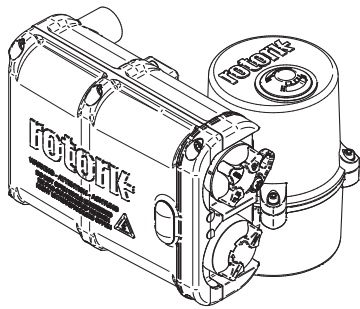


Flange type

F10

Dimensional Data

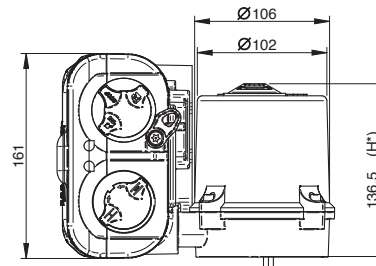
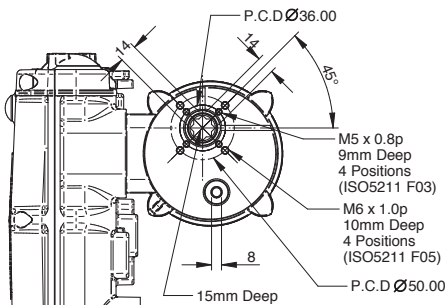
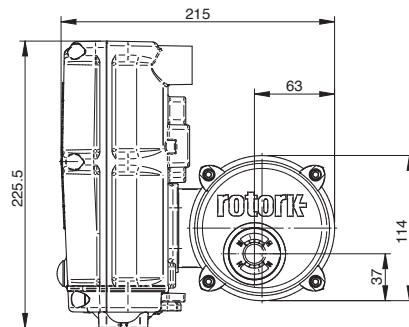
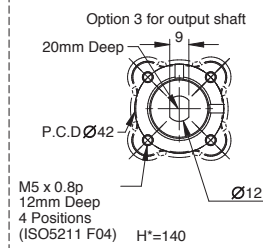
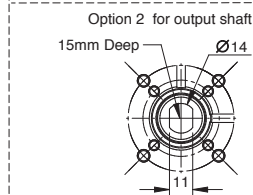
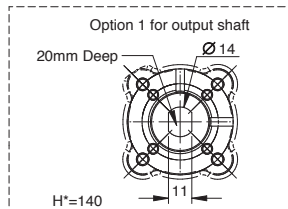
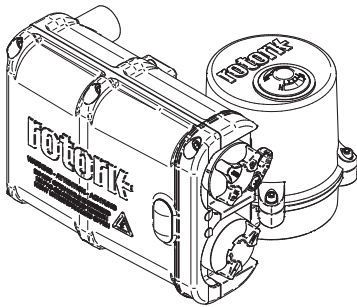
ROMpak-A



Flange type

F07 / F05

ROMpak-1

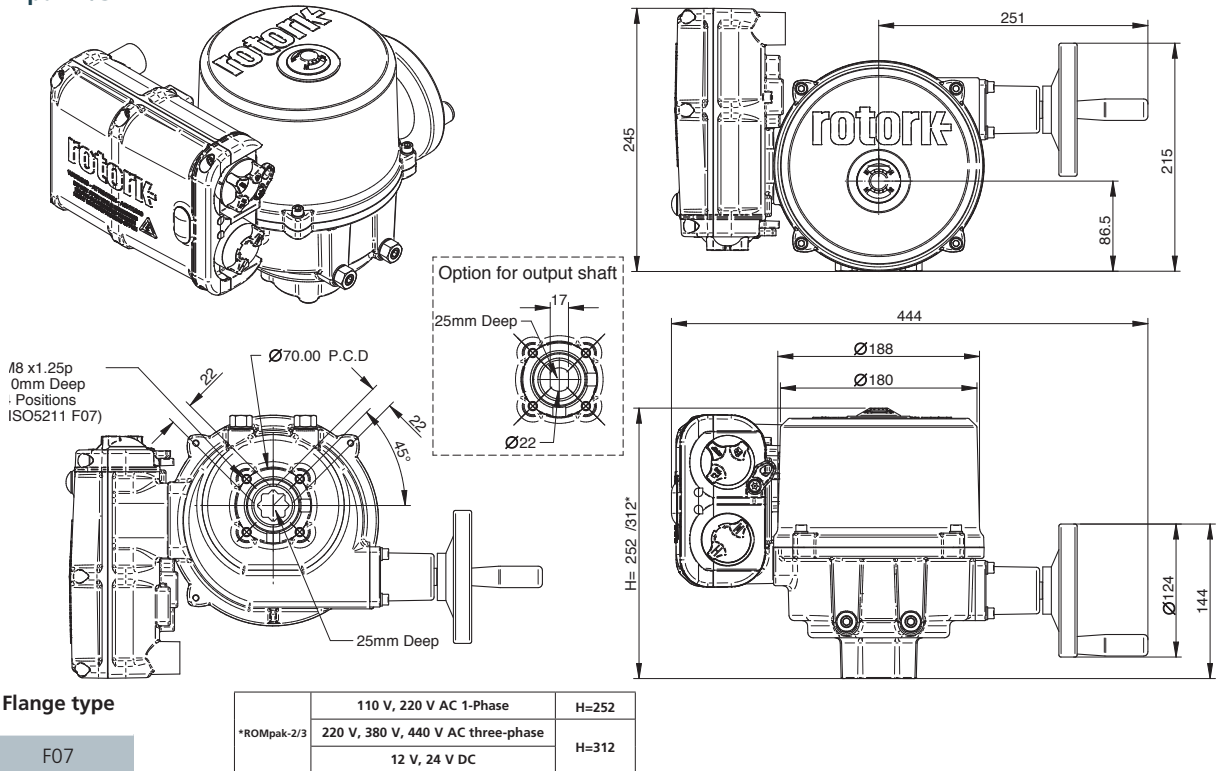


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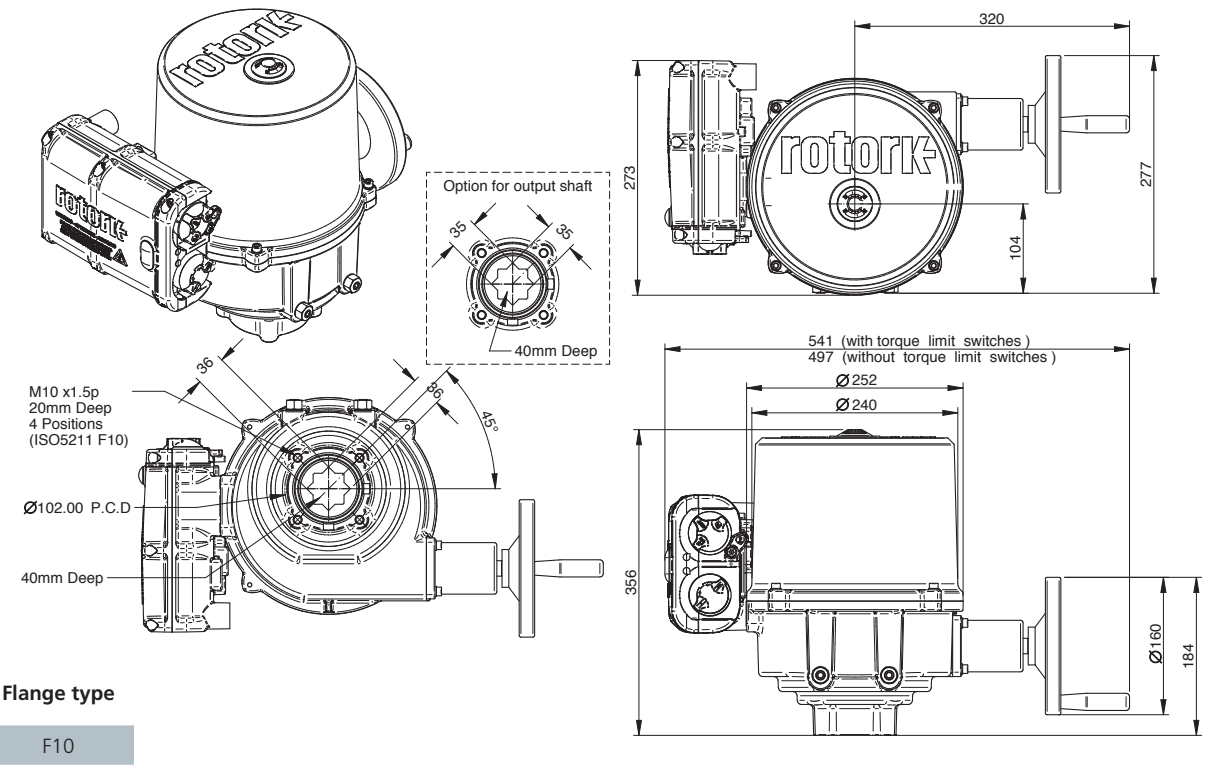
F05 / F03

Dimensional Data

ROMpak-2/3



ROMpak-4/5/6



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