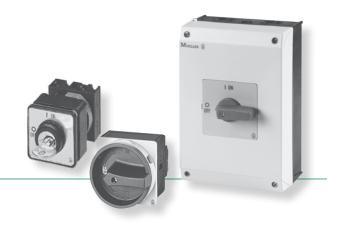
rotary switches reliable switching to 100A















Moeller series rotary switches are an economic choice for the simple logic functions and manual switching required in many industrial applications. From simple ON-OFF disconnects, to reversing wye-delta motor control, Moeller series rotary switches offer an array of standard and custom switches to precisely match your functional requirements.

Switching to your application

Moeller series rotary switches contain two switch lines, each with two frame sizes, that can handle loads to 100A or 75HP @ 575V. As with other world class Moeller series products, you can expect the highest level of reliability from these devices.

The "T" rotary switch line is highly versatile, allowing for many configuration options such as step load switching, control switching and specialty selectors.

The "P" motor disconnect line has a robust amp and horsepower capacity, with optional built-in auxiliary contacts in our standard selection.

Red handles and yellow faceplate options are available, allowing for approved emergency-stop switches in all product lines and frame sizes.

Versatile switching, versatile mounting

All switches are available in multiple mounting types including traditional flush and base mounting. Many switches are also available with center hole mounting as well as pre-mounted in an NEMA 3R (IP65) enclosure. Multiple mounting options provide application flexibility so you can build the switch to fit your machine instead of the other way around.

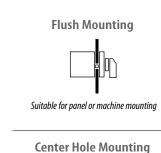
> Single phase and three phase switches

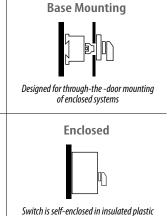
- > Up to 100A / 75HP (@ 575V)
- > Custom switches available with quick turnaround
- > Keyed and non-keyed switches











enclosure. Rated to NEMA 1, 12 & 3R and IP65.













Offering the right stuff

Various handle types, shrouds, shaft extensions, neutral terminals and keyed operator accessories are available to round out the line, making it easy to use the right stuff for your application.



Approved for export or domestic use

Along with UL / CSA approvals, rotary switches are

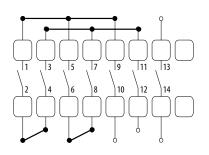


also approved for export with IEC and VDE. In addition, all enclosed rotary switches can be ordered with ATEX approvals (for explosive atmo-

spheres). See page M40 for ATEX information.

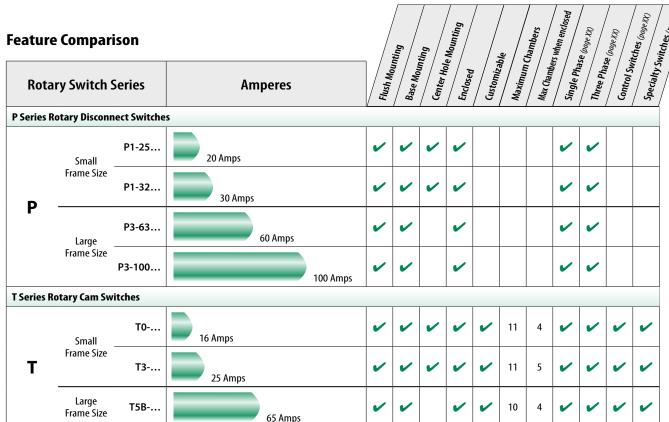
Designed by the right person – YOU!

The nature of rotary switches allows for many different configurable combinations. We maintain a custom rotary switch facility in North America where contact design and behavior can be configured to your exact specifications within a week. Custom faceplates are engraved on location with a quick turnaround. Even master key systems are available. Sales representatives are always ready to assist in designing the switch you need...fast!

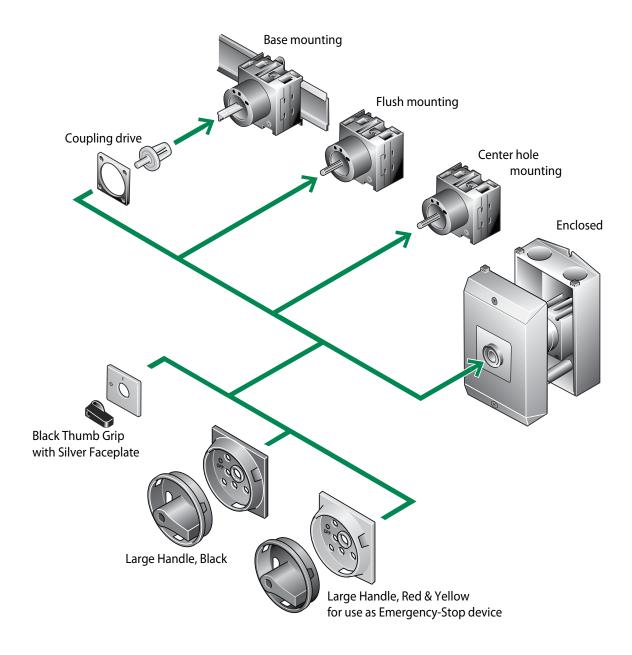


Custom rotary switch options include engraved faceplates, master key systems, and contact behavior configurations (illustrated left).

Feature Comparison



Product Overview



M4 moellerNA.com · eaton.com

Rotary Switches Overview

Device	Description	Range	Pages	
Rotary Switches				
	Single Phase Switches Motor Disconnect On-Off Emergency-Stop Changeover Reversing	Up to 15 HP @230V; Up to 100 Amps	M10 – M15	
	Three Phase Switches Motor Disconnect On-Off Emergency-Stop Changeover Reversing Star-Delta Multi-Speed	Up to 75 HP @575V; Up to 100 Amps	M16 – M25	
	Control Switches Step (2 – 6 steps) On-Off Hand-Auto On (make contact) Changeover Series		M26 – M32	
	Specialty Switches Multi-purpose Coding		M33 – M35	

Voltmeter Ammeter Voltmeter & Ammeter

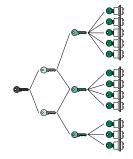
Device	Description	Pages
Enclosures		
	Enclosures	M40

Faceplates



Alternate faceplates Blank faceplates M41 - M52Custom engraved faceplates

Master Key System



Master key system for keyed operators

M53 - M58

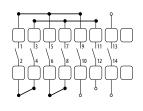
Accessories



Handles Keyed Operators Terminals Extensions Shrouds

M36 - M39

Custom Switches



Custom rotary switches

M59 - M65

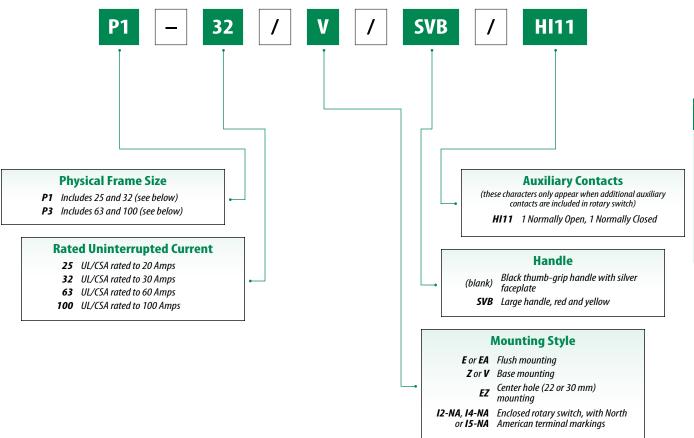
M5

Rotary Switches

M7

The Moeller series catalog numbering system for rotary switches and other devices follows a logical system. Device attributes can be determined by the following nomenclature.

Dashes (–) and slashes (/) are used to separate device attributes and should always be included when ordering.



This page for reference only.

Please turn to the appropriate pages to determine the exact device and/or accessories required for your application.

MAIN-CAT-1210 moellerNA.com · eaton.com

Single Phase Switches **1**

No. of	Standard Faceplate (for other options, note faceplate code and frame size of desired switch and		Rated for	Auxi	lt-in iliary tacts	Si Max.	ngle Pha Motor R [HP]	ise ating	Current Rating		
Poles	turn to page M41.)	Contact Sequence	Applications	NO	NC	@115V	@200V	@230V	UL/CSA	Handle	
ON-OFF	Switches										
						3/4	2	2	16	Black / Silver	
						74	2	2	10	Padlockable - Red / Yellow	
1			Motor Disconnect Switch On-Off Switch	0	0	1½	3	3	25	Black / Silver	
'		0 0	Emergency-Stop 2	0	0	172	3	3	23	Padlockable - Red / Yellow	
		- 2	, , ,			3	7½	10	65	Black / Silver	
						3	772	10	0.5	Padlockable - Red / Yellow	
						3/4	2	2	16	Black / Silver	
	D					74	2		10	Padlockable - Red / Yellow	
2	Black / Silver handles:		Motor Disconnect Switch On-Off Switch	0	0	1½	3	3	25	Black / Silver	
2	I ON	0000	Emergency-Stop 2	0	"	1 / 2)	3	25	Padlockable - Red / Yellow	
	O OFF	- C & 4	3. 7				7½	10	65	Black / Silver	
	FS 908					3 7	/ //2	10	65	Padlockable - Red / Yellow	
	Padlockable handles are not supplied with faceplate.		On-Off Switch Emergency-Stop ② These switches can also	0	0	3/4	2	2	16	Black / Silver	
	Padlockable handles are marked: I ON O OFF		be used in three phase applications. See page M16 for ratings.	O		74	2	2	10	Padlockable - Red / Yellow	
3						1½	3	3	20	Black / Silver	
,		00000	Motor Disconnect Switch			1/2	,		20	Padlockable - Red / Yellow	
		- 7 m 4 m 0	On-Off Switch Emergency-Stop ②			2	3	5	30	Black / Silver	
				0	0		,		30	Padlockable - Red / Yellow	
			These switches can also be used in three phase			3	7½	10	60	Black / Silver	
			applications.				1/2	10	00	Padlockable - Red / Yellow	
			See page M16 for ratings.			5	10	15	100	Black / Silver	
							10	را	100	Padlockable - Red / Yellow	
		Custom switch confid	urations available - see na	ao M5	0 for de	taile					

- Custom switch configurations available see page M59 for details.
- Non-enclosed switches are supplied with European terminal markings (1, 3, 5, etc.). For North American terminal markings (L1, L2, L3, etc.), add suffix -NA to catalog number and add \$25 to price. Enclosed switches have North American terminal markings as standard.
- Ochoose Red / Yellow or Padlockable Red / Yellow handle for Emergency-stop applications.

Ordering Instructions



- 1 Locate the desired rotary switch.
- 2 Order accessories separately on pages M36 M40.

Standard Handle Types

	**
Black / Silver	Padlockable - Red / Yellow
I DI	
Black handle Silver faceplate NEMA 1	Red/Yellow handle, NEMA 3R Padlockable in OFF position Suitable for emergency- stop applications

M10

M11

Flush Mounting		Base Mounting		Center Hole (22.5 / 30 mm) Mounting		Enclosed NEMA 12, 3R (IP65) Insulated Plastic	
						See page M4 ATEX informa	
Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
ON-OFF Switches							
T0-1-8200/E		T0-1-8200/Z		T0-1-8200/EZ		T0-1-8200/I2-NA	
T0-1-8200/EA/SVB		T0-1-8200/V/SVB		_		T0-1-8200/I2/SVB-NA	
T3-1-8200/E		T3-1-8200/Z		T3-1-8200/EZ		T3-1-8200/I2-NA	
T3-1-8200/EA/SVB		T3-1-8200/V/SVB		_		T3-1-8200/I2/SVB-NA	
T5B-1-8200/E		T5B-1-8200/Z		_		T5B-1-8200/I4-NA	
T5B-1-8200/EA/SVB		T5B-1-8200/V/SVB		_		T5B-1-8200/I4/SVB-NA	
T0-1-102/E		T0-1-102/Z		T0-1-102/EZ		T0-1-102/I2-NA	
T0-1-102/EA/SVB		T0-1-102/V/SVB		_		T0-1-102/I2/SVB-NA	
T3-1-102/E		T3-1-102/Z		T3-1-102/EZ		T3-1-102/I2-NA	
T3-1-102/EA/SVB		T3-1-102/V/SVB		_		T3-1-102/I2/SVB-NA	
T5B-1-102/E		T5B-1-102/Z		_		T5B-1-102/I4-NA	
T5B-1-102/EA/SVB		T5B-1-102/V/SVB		_		T5B-1-102/I4/SVB-NA	
T0-2-1/E		T0-2-1/Z		T0-2-1/EZ		T0-2-1/I2-NA	
T0-2-1/EA/SVB		T0-2-1/V/SVB		_		T0-2-1/I2/SVB-NA	
P1-25/E		P1-25/Z		P1-25/EZ		P1-25/I2-NA	
P1-25/EA/SVB		P1-25/V/SVB		_		P1-25/I2/SVB-NA	
P1-32/E		P1-32/Z		P1-32/EZ		P1-32/I2-NA	
P1-32/EA/SVB		P1-32/V/SVB		_		P1-32/I2/SVB-NA	
P3-63/E		P3-63/Z		_		P3-63/I4-NA	
P3-63/EA/SVB		P3-63/V/SVB		_		P3-63/I4/SVB-NA	
P3-100/E		P3-100/Z		_		P3-100/I5-NA	
P3-100/EA/SVB		P3-100/V/SVB		_		P3-100/I5/SVB-NA	

Optional Handles - Order Separately (see page M36 for details and other options)

				Option	s for Black /	/ Silver h	andles				Options Padlockal	
					Cylinder I		Cylinder L		Padlock Med		Red / Yellow l	
	Rec	d Handle / Y	ellow Faceplate		Key opera Silver face		Black har Silver face		Black har Silver face		Padlockable Blac	k Handle
	NEMA 1	0		ION O J OFF S 908GE								
For Switch	Hand	le	Facepla	ate	Not UL/CSA a	approved	Not UL/CSA a	pproved	Not UL/CSA a	approved	NEMA 3	R
Frames	Catalog No.	Price	Catalog No.	Price	Catalog No.	Price	Catalog No.	Price	Catalog No.	Price	Catalog No.	Price
T0, T3, P1	KNB-RT-TO		FS908GE-T0		S-TO		SVA-T3		SVC-T3		SVB-SW-T0	
T5B, P3	KNB-RT-P3		FS908GE-P3		_		_		_		SVB-SW-P3	

Rotary Switches

Rotary Switches

Rotary Switches			P1-25	P1-32	P3-63	P3-100		
General								
Standards UL report number			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3 E36332					
CSA report number			012528					
Lifespan, mechanical	Operations	[x 10 ⁶]	0.3	0.3	0.1	0.1		
Maximum operating frequency	Operations/h	[x lo]	50	50	50	50		
Climatic proofing				nstant, to IEC 60068-2-78	B: Damp heat, cyclical, to			
Ambient temperature				,	,, -, -, -,,			
Open		[°C / °F]	-2550 °C / -13122 °F	-2550 °C / -13122 °F	-2550 °C / -13122 °F	-2550 °C / -13122 °F		
Enclosed		[°C / °F]	-2540 °C / -13104 °F	-2540 °C / -13104 °F	-2540 °C / -13104 °F	-2540 °C / -13104 °F		
Mounting position			As required	As required	As required	As required		
Mechanical shock-resistance (IEC/EN 60068	3-2-27)			-	-	-		
Half-sinusoidal shock, 20 ms		[g]	15	15	15	15		
Contacts								
Rated operational voltage	U_{e}	[V AC]	690	690	690	690		
Rated impulse withstand voltage	U_{imp}	[V AC]	6000	6000	6000	6000		
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3		
Rated uninterrupted current (UL)	I_{U}	[A]	25	32	63	100		
Load rating with intermittent operation, cla	ass 12							
AB 60 % DF		$[xI_e]$	1.3	1.3	1.3	1.3		
AB 40 % DF		$[xI_e]$	1.6	1.6	1.6	1.6		
AB 25 % DF		$[xI_e]$	2	2	2	2		
Short-circuit rating	Fuse	[A gG/gL]	25	50	80	100		
Rated short-time withstand current (1 s cu	rrent) $I_{\sf CW}$	[A _{rms}]	640	640	1260	2000		
Isolating characteristics to IEC/EN 60947		[V AC]	690	690	690	690		
Safe isolation to VDE 0106 Part 101 and Par	rt 101/A1							
Between auxiliary contacts and main	contacts	[V AC]	440	440	440	440		
Switching angles		[°]	90	90	90	90		
Contact units			max. 3(+N)	max. 3(+N)	max. 3(+N)	max. 3(+N)		
Current heat loss per contact at $I_{ m e}$		[W]	1.1	1.8	4.5	7.5		
Terminal Capacities								
Solid or stranded		[mm²]	1 x (1.5 – 6)	1 x (1.5 – 6)	1 x (2.5 – 35)	1 x (2.5 – 35)		
			2 x (1.5 – 6)	2 x (1.5 – 6)	2 x (2.5 – 10)	2 x (2.5 – 10)		
Flexible with ferrule to DIN 46228		[mm²]	1 x (1 – 4)	1 x (1 – 4)	1 x (1.5 – 25)	1 x (1.5 – 25)		
Terminal screw			2 x (1 – 4) M4	2 x (1 – 4) M4	2 x (1.5 – 6) M5	2 x (1.5 – 6) M5		
		[Nm]	1.6	1.6	3	3		
Tightening torque		[IIIII]	1.0	1.0	3	3		

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Rotary Switch	hes			P1-25	P1-32	P3-63	P3-100
Switching Capa	city (IEC only)						
AC							
Rated making ca	apacity $\cos \varphi = 0.35$		[A]	240	320	800	950
Rated breaking o	capacity, motor load switch cos ϕ =	= 0.35					
	230V		[A]	190	260	640	760
	400V		[A]	150	300	640	740
	500V		[A]	170	290	590	880
	690V		[A]	150	250	340	520
AC-21A Rated op	perational current load-break switc	h					
	440V	I_{e}	[kW]	25	32	63	100
AC-3 motor load	l switch motor rating						
	230V	P	[kW]	5.5	7.5	15	22
	400/415V	P	[kW]	7.5	13	30	37
	500V	P	[kW]	7.5	18.5	30	45
	690V	P	[kW]	7.5	15	30	37
AC-23A motor lo	oad switches (main switches, mainte	enance switches	s)				
	230V	P	[kW]	7	8.5	18.5	45
	400/415V	P	[kW]	13	15	37	37
	500V	P	[kW]	11	18.5	37	30
	690V	P	[kW]	11	18.5	30	50
C							
DC-1, load-breal	k switches L/R = 1 ms						
Rated opera	ational current	I_{e}	[A]	25	32	63	65
Voltage per	r contact pair in series		[V]	60	60	60	45
DC-23A, motor l	oad switch $L/R = 15 \text{ ms}$						
24V	Rated operational current	I_{e}	[A]	25	25	50	100
	Contacts		[Quantity]	1	1	1	60
48V	Rated operational current	I_{e}	[A]	25	25	50	50
	Contacts		[Quantity]	2	2	2	1
60V	Rated operational current	I_{e}	[A]	25	25	50	50
	Contacts		[Quantity]	3	3	3	3
120V	Rated operational current	I_{e}	[A]	12	12	25	25
	Contacts		[Quantity]	3	3	3	3

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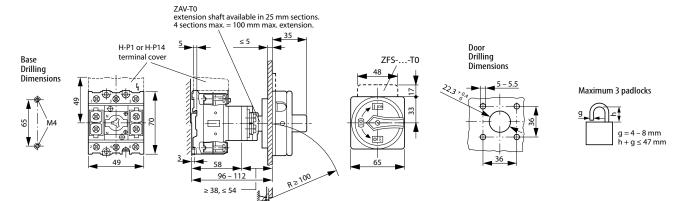
P1-... Rotary Switches

P1-... Rotary Switches

Base Mounting (continued)

Padlockable size handle P1-.../V/SVB-SW P1-.../V/SVB Dimensions are in millimeters.

Not intended for manufacturing purposes.



P1-... Rotary Switches Center Hole Mounting

Standard size handle

P1-.../EZ

