

TORQ

PRODUCT INFORMATION

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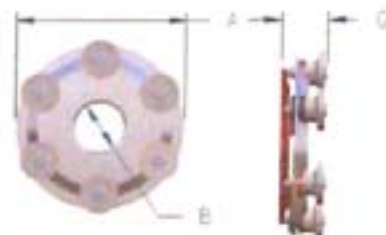
SYNCROSNAP® CENTRIFUGAL SWITCHES FOR SINGLE-PHASE ELECTRIC MOTORS

TORQ Corporation was originally incorporated in 1950 as a manufacturer of electric motors. The founder developed a unique switching mechanism for controlling the auxiliary start-winding of single-phase electric motors. These switches were so superior to other alternatives that virtually all leading motor manufacturers began buying switches from TORQ. Over time the switch business grew so successfully that TORQ discontinued manufacturing motors and specialized in centrifugally activated switches. TORQ continued to add to its substantial number of patents of various switch designs.

TORQ Corporation is the world's largest manufacturer of precision centrifugal switches and produces Syncrosnap® Centrifugal Switches for OEM's, distributors, users, and the replacement parts market. A centrifugal switch consists of two parts, (1) a centrifugal mechanism (mechanical component) which rotates on the motor shaft and interacts with (2) a fixed stationary switch (electrical component) which controls the start-winding circuit. The centrifugal mechanism is designed to be press-fit onto the motor shaft. Standard bore sizes are available and custom fits can be accommodated.



SYNCROSNAP® CENTRIFUGAL MECHANISM APPLICATION CHART



	Centrifugal Mechanism Series					
TORQ Series Number	C100	C150	C170	C200	C250	C300
Mechanism Outer Diameter (A)	2.00	2.25	2.42	2.61	2.78	3.56
Mechanism Height (G)	0.51 to 0.60	0.65 TO 0.75	0.64 to 0.74	0.63 to 0.76	0.66 TO 0.72	0.77 to 0.96
Frame (NEMA)	38 to 42	42 to 48	48 to 56	48 to 145	145 to 180	180 to 215
Shaft Diameter (B)	0.25 to 0.60	0.30 to 0.80	0.35 - 0.80	0.40 to 1.00	0.60 to 1.40	0.80 to 1.70
Speed in Poles/Hertz	2P50; 2P60 4P50; 4P60	2P50; 2P60 4P50; 4P60 6P50; 6P60 8P50; 8P60	2P50; 2P60 4P50; 4P60 6P50; 6P60 8P50; 8P60	2P50; 2P60 4P50; 4P60 6P50; 6P60 8P50; 8P60	2P50; 2P60 4P50; 4P60 6P50; 6P60 8P50; 8P60	2P50; 2P60 4P50; 4P60 6P50; 6P60 8P50; 8P60
Motor Bearing	6202	6202	6202 to 6203	6202 to 6204	6204 to 6205	6205 to 6208

Note: All dimensions are in inches.



Dual-Arm
Switch

STATIONARY SWITCH APPLICATION CHART



Single Arm
Switch

Stationary Switch Series (Dual Arm)							SINGLE ARM		
TORQ Series Number	S100	S200	S250	S300	S350				
Motor Bearing	6202	6203	6204	6205	6206		Various		
Frame (NEMA)	38 to 42	42 to 56	56 to 146	180 to 215	180 to 215		Various		
Inner Diameter	1.410	1.687	1.937	2.250	2.906		N/A		
Mounting Center	2.125	2.562 to 2.75	2.562 to 2.75	2.75 or 3.375	3.375		Various		
Length x Width	2.62 x 2.23	3.438 x 2.50	3.438 x 3.063	3.813 x 3.25	4.30 x 4.00		Various		
Contact Arrangements	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side	Left Side	Right Side	SPNO SPNC SPDT
	SPNO	---	SPNO	---	SPNO	---	SPNO	---	
	SPNO	SPNO	SPNO	SPNO	SPNO	SPNO	SPNO	SPNO	
	SPNO	SPNC	SPNO	SPNC	SPNO	SPNC	SPNO	SPNC	
	SPNO	SPDT	SPNO	SPDT	SPNO	SPDT	SPNO	SPDT	
	SPNO	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT	
Locked Rotor Current (Amps)	20 to 35	35 to 50	35 to 50	70	70				Various

Note: (1) All dimensions are in inches. (2) Definitions: N/A = Not Applicable SPNO = Single-pole normally open
SPNC = Single-pole normally closed SPDT = Single-pole double throw

The Stationary Switch is the current-carrying component of the TORQ Syncrosnap® Centrifugal Switch. These switches are designed to fit within the motor with a minimum of assembly time required. They can also be furnished to perform secondary functions when the equipment attains full speed.

Each unit size can be utilized for single-contact, dual-contact, multi-speed and added features of multiple circuitry when needed. Terminal board arrangements are also available for field connection changes in speed, direction, etc. when desired.

SWITCH SELECTION FOR YOUR MOTOR

Here is the basic information needed to help choose a switch package for your motor application:

- Frame Size (NEMA, or IEC)
- Horsepower
- Insulation Class
- Motor speed (RPM, or Poles/Hz)
- Motor bearing Size
- Locked-rotor current
- Voltage
- Shaft diameter
- Application
- Additional terminals (field) if required



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