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Find the *Danaher Motion / Superior Electric SS241-1032* at our website: *Click HERE*

SS240,SS450 Series 90mm Frame Size (NEMA Sizes 23, 34, 42)



- Motor torque up to 450 oz-in (1059 N-cm)
- 72 RPM @ 60 Hz - 60 RPM @ 50 Hz
- 120 and 240 volt AC versions
- Needs only a capacitor to operate from single-phase power
- Available with integral capacitor for single phase operation
- Operates directly from three-phase power
- Leaded, connector or terminal box connections
- Planetary gearboxes available – See pages 18 and 20

SS **241 242 451 452** ☐ ☐ G☐☐Gearbox + Ratio

Torque in oz-in, and Last # indicates Voltage	
1	120 Volts
2	240 Volts
SS241 = 240 oz-in, 120 V	
SS452 = 450 oz-in, 240 V	

L	Leads - Base offering
T	Terminal Box
(blank)	Connector on Leads
C	Covered Capacitor
CT	Capacitor in Terminal Box
E	Rear Shaft

120 Volt, 60 Hz, Single Phase, 72 RPM

* Type Number	voltage	Torque (min)		# Load Inertia		amps	Wiring Diagram	Phase Shifting Capacitator (250 VAC)	
		oz-in	N-cm	lb-in^2	kg-cm^2			Kit Number	µF
SS241☐	120	240	169	2.5	7	0.40	C	201053-037	7.5
SS451☐	120	450	318	5.5	16	0.80	C	201053-042	14

240 Volt, 60 Hz, Single Phase, 72 RPM

* Type Number	voltage	Torque (min)		# Load Inertia		amps	Wiring Diagram	Phase Shifting Capacitator (250 VAC)	
		oz-in	N-cm	lb-in^2	kg-cm^2			Kit Number	µF
SS242☐	208/240	240	169	2.5	7	0.20	C	201053-038	2
SS452☐	208/240	450	318	7.5	22	0.30	C	201053-044	3

240 Volt, 50 Hz, Single Phase, 60 RPM

* Type Number	voltage	Torque (min)		# Load Inertia		amps	Wiring Diagram	Phase Shifting Capacitator (250 VAC)	
		oz-in	N-cm	lb-in^2	kg-cm^2			Kit Number	µF
SS242☐	240	240	169	1	3	0.20	C	201053-038	2
SS242☐	220	240	169	1	3	0.20	C	201053-041	2.5
SS452☐	220/240	450	318	2	6	0.30	C	201053-061	4

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SS240, SS450 (Continued)

Three Phase, 208 - 240 Volt, 60 Hz, 72 RPM

* Type Number	voltage	Torque (min)		# Load Inertia		amps	Wiring Diagram
		oz-in	N-cm	lb-in^2	kg-cm^2		
SS242☐	208/240	250	177	2.5	7	0.20	3 Ø
SS452☐	208	475	335	4.5	13	0.30	3 Ø

Three Phase, 208 Volt, 50 Hz, 60 RPM

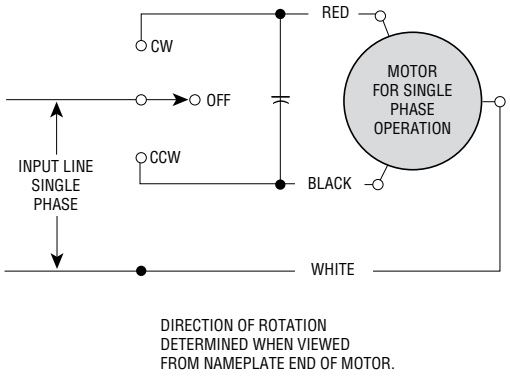
* Type Number	voltage	Torque (min)		# Load Inertia		amps	Wiring Diagram
		oz-in	N-cm	lb-in^2	kg-cm^2		
SS242☐	208	250	177	4	12	0.20	3 Ø
SS452☐	208	475	335	4.5	13	0.30	3 Ø

Connection Diagrams

Terminations

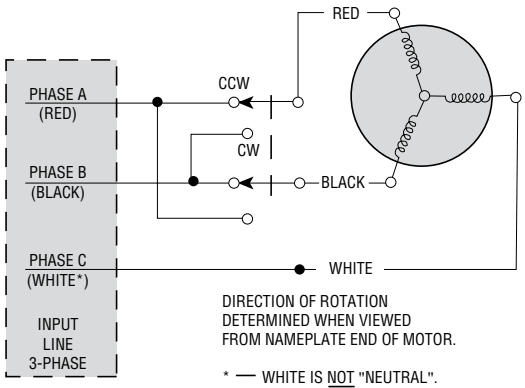
Lead Color	Connector Motor	Terminal Box Motor
Red	Pin # 7	Terminal # 1
Black	Pin # 6	Terminal # 3
White	Pin # 2	Terminal # 2

C Connection



Single-Phase Operation

3 Ø Connection

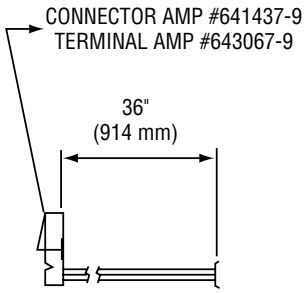


Three-Phase Operation

Mating Connector with Leads

Part number 225505-001

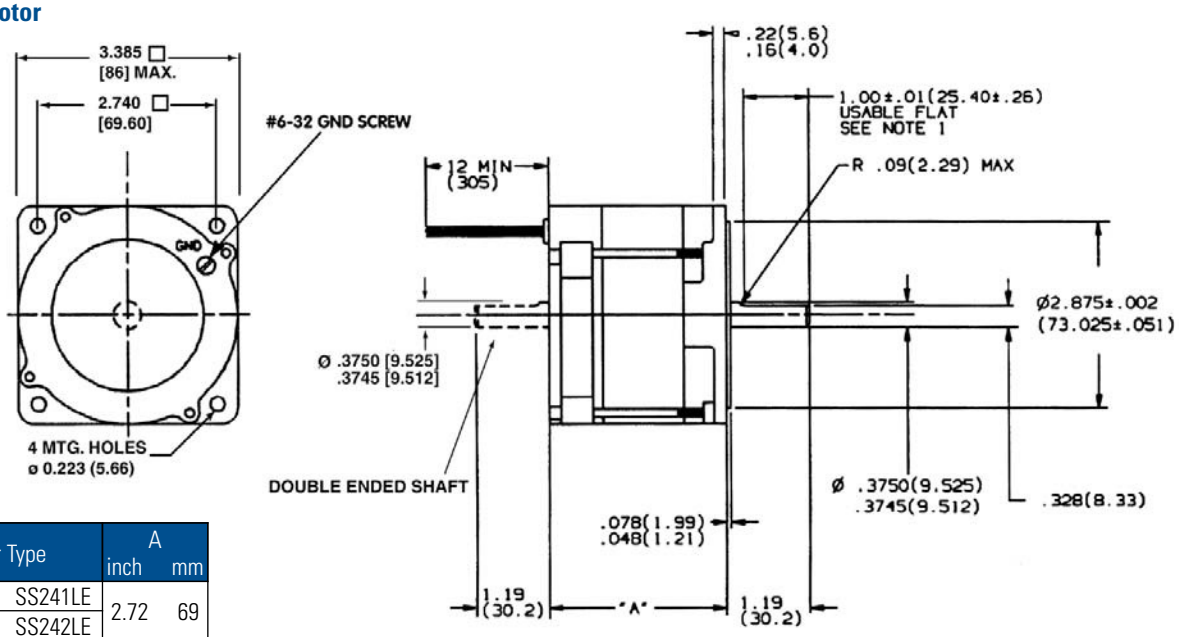
Mating connectors with 36" (914mm) long leads are available for making connections to motors that have connectors.



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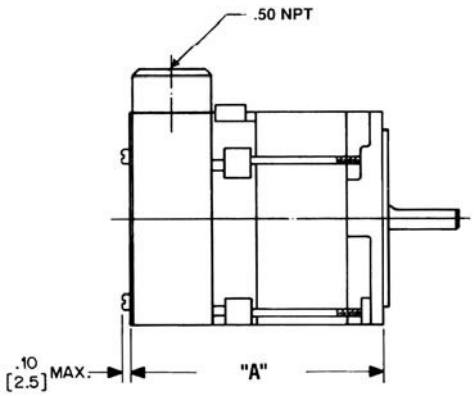
SS240, SS450 (Continued)

Leaded Motor



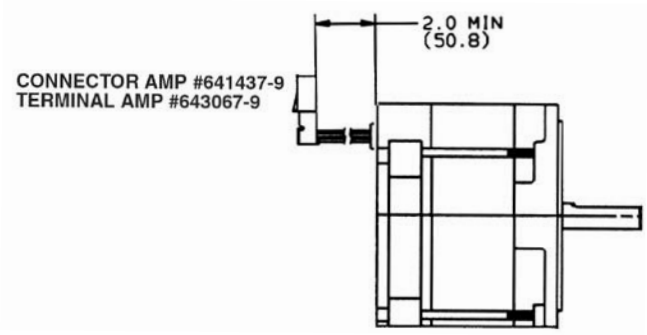
Motor Type		A inch	A mm
SS241L	SS241LE	2.72	69
SS242L	SS242LE		
SS451L	SS451LE	4.32	110
SS452L	SS452LE		

Terminal Box



Motor Type		A inch	A mm
SS241T		4.05	103
SS242T			
SS451T		5.65	144
SS452T			

Connector



Motor Type	
SS241	SS241E
SS242	SS242E
SS451	SS451E
SS452	SS452E

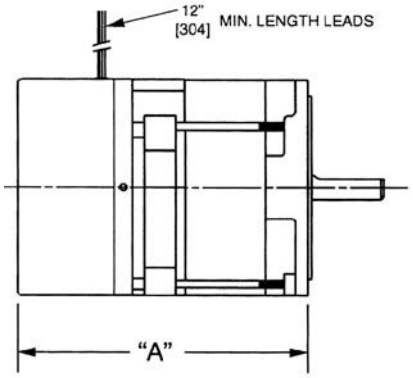
Dimensions are shown in inches (mm)

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SS240, SS450 (Continued)

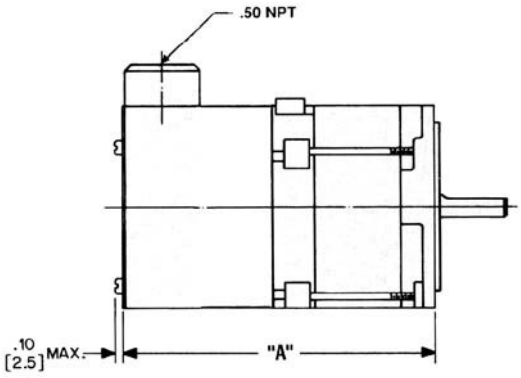
Covered Capacitor

Motor Type	A inch	A mm
SS241C	4.69	119
SS242C		
SS451C	6.29	160
SS452C		



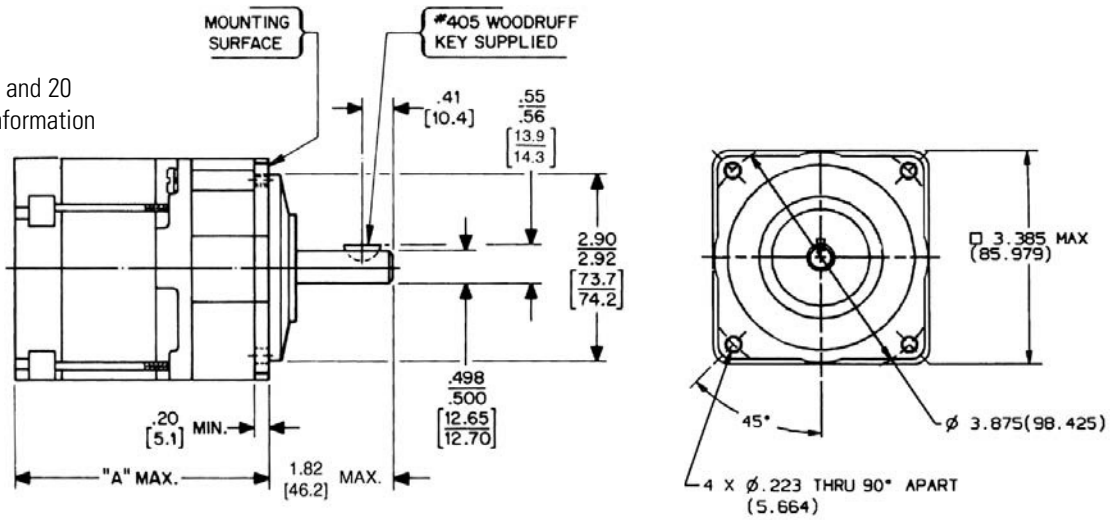
Capacitor in Terminal Box

Motor Type	A inch	A mm
SS241CT	5.48	139
SS242CT		
SS451CT	7.08	180
SS452CT		



Gearmotors

See pages 18 and 20
for gearbox information



Motor Series	Gearbox Ratio	B inch	B mm	Leaded & Connector Motors: Leaded Motors	Leaded & Connector Motors: Connector Motors	Leaded & Connector Motors: A inch	Leaded & Connector Motors: A mm	Terminaol Box Motors: Motor Type	Terminaol Box Motors: A inch	Terminaol Box Motors: A mm	Covered Capacitor Motors: Motor Type	Covered Capacitor Motors: A inch	Covered Capacitor Motors: A mm	Capacitor in Terminal Box Motors: Motor Type	Capacitor in Terminal Box Motors: B inch	Capacitor in Terminal Box Motors: B mm
SS240	3:1 thru 5:1	1.19	30.2	S241LG□□ SS242LG□□	SS241G□□ SS242G□□	3.91	99	SS241TG□□ SS242TG□□	5.24	133	SS241CG□□ SS242CG□□	5.88	149	SS241CTG□□ SS242CTG□□	6.67	169
	9:1 thru 25:1	1.81	46.0			4.53	115		5.86	149		6.50	165		7.29	185
	27:1 thru	2.38	60.5			5.10	130		6.43	163		7.07	180		7.86	200
SS450	3:1 thru 5:1	1.19	30.2	SS451LG□□ SS452LG□□	SS451G□□ SS452G□□	5.51	140	SS451TG□□ SS452TG□□	6.84	174	SS451CG□□ SS452CG□□	7.48	190	SS451CTG□□ SS452CTG□□	8.27	210
	9:1 thru 25:1	1.81	46.0			6.13	156		7.46	189		8.10	206		8.89	226
	27:1 thru 125:1	2.38	60.5			6.70	170		8.03	204		8.67	220		9.46	240

Dimensions are shown in inches (mm)

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