

485 Series Order Guides

Table 485-A Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance ($\pm\%$)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ± 3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Flat Length (mm [in])	B Flat Thickness (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485000M8990	5 k	10	4	4	112	312	S-7	312	1-4 [7-28]	12 [1-4]	no	11,13 [0.438]	5,54 [0.218]	22,23 [0.875]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)

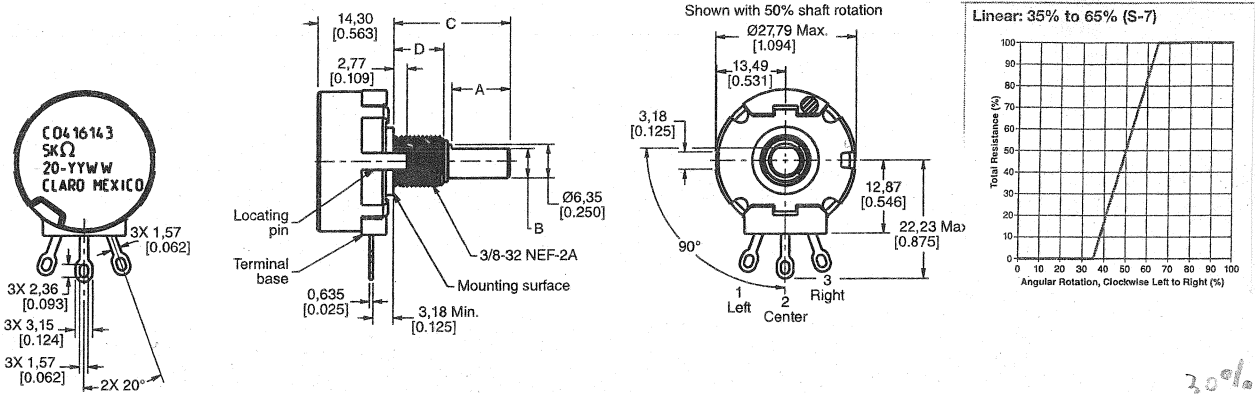
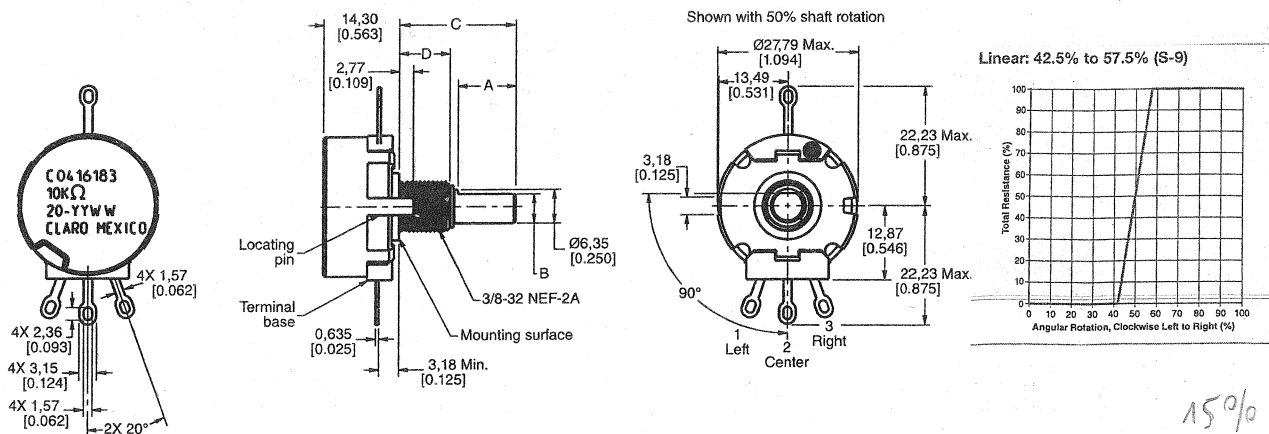


Table 485-B Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance ($\pm\%$)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ± 3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Flat Length (mm [in])	B Flat Thickness (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485025M9052	10 k	10	4	4	112	312	S-9	312	S-14	12	no	11,13 [0.438]	5,54 [0.218]	22,23 [0.875]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)



485 Series Order Guides

Table 485-C Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions		RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	Shaft Length (mm [in])	Bushing Length (mm [in])		
485025M8843	10 k	10	4	4	112	312	S-13	312	1-4 [7-28]	12 [1.4]	no	15,88 [0.625]	6,35 [0.250]	yes	unassembled
485025M9267	5 k	10	4	4	112	312	S-13	312	1-4 [7-28]	12 [1.4]	no	15,88 [0.625]	6,35 [0.250]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)

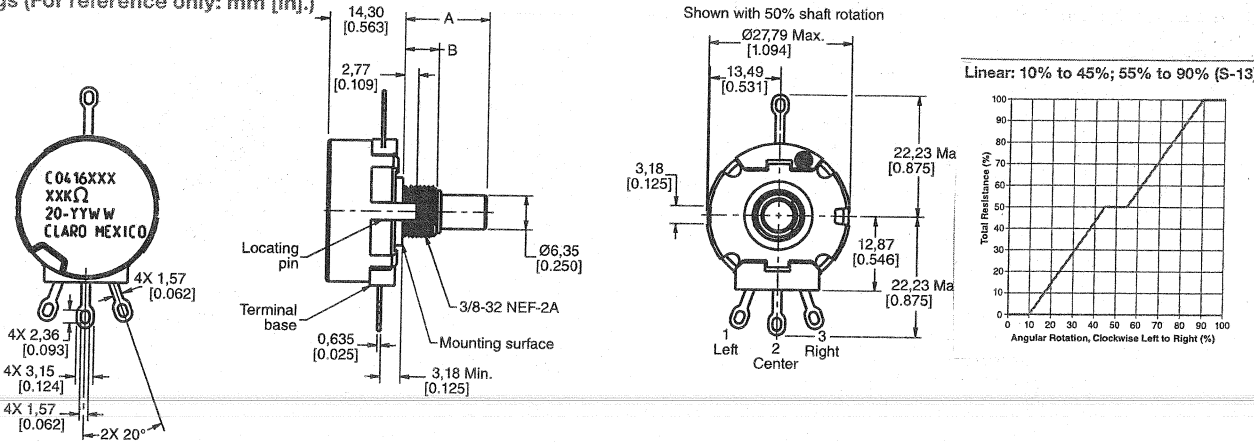
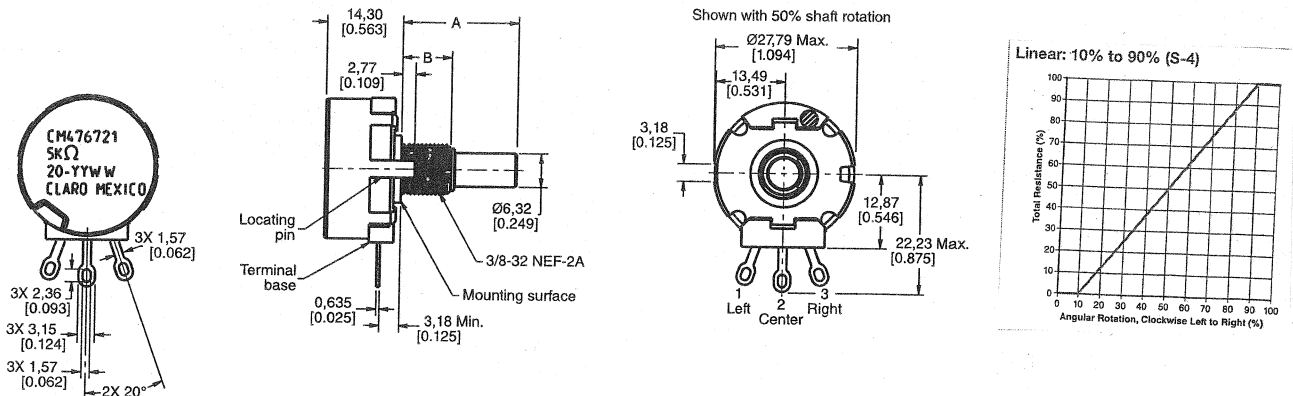


Table 485-D Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions		RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	Shaft Length (mm [in])	Bushing Length (mm [in])		
485008M7167	5 k	10	4	4	284	312	S-4	312	1-6 [7-42]	12 [1.4]	yes	22,23 [0.875]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)



485 Series Order Guides

Table 485-E Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions		RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Shaft Length (mm [in])	B Bushing Length (mm [in])		
485000M8930	5 k	10	4	4	284	312	S-16	312	1-4 [7-28]	12 [1.4]	no	50,8 [2.000]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)

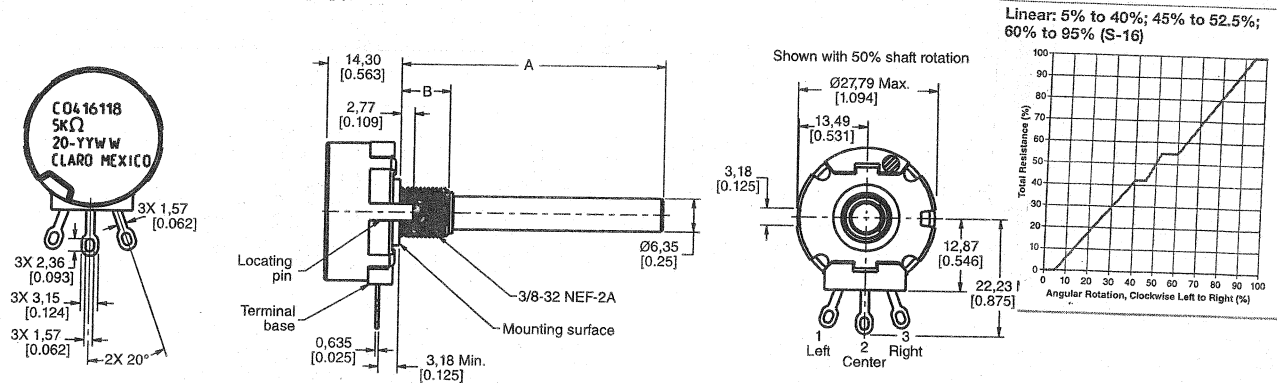
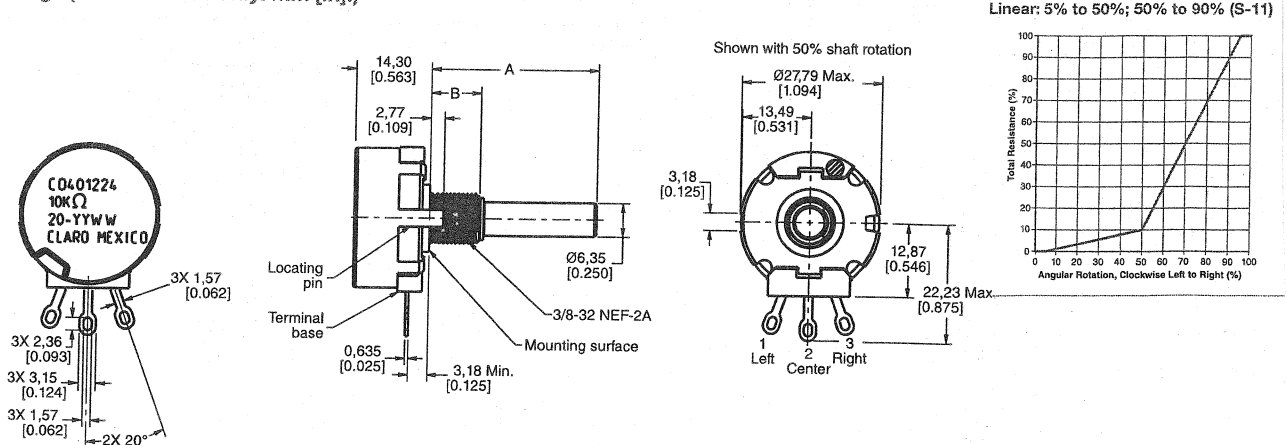


Table 485-F Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions		RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance ($\pm$ %)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ± 3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Shaft Length (mm [in])	B Bushing Length (mm [in])		
485000M9156	10 k	10	4	100	284	312	S-11	312	1-4 [7-28]	12 [1.4]	no	31,75 [1.250]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)



485 Series Order Guides

Table 485-G Order Guide

8.5	Electrical						Mechanical				Dimensions		RoHS Compliant	Mounting Hardware	
	Resistance (Ohm)	Resistance Tolerance (+ %)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, +3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Shaft Length (mm [in])			B Bushing Length (mm [in])
485004M8986	25 k	10	4	4	180	348	S-6	360	1-4 [7-28]	-	no	76,2 [3.000]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)

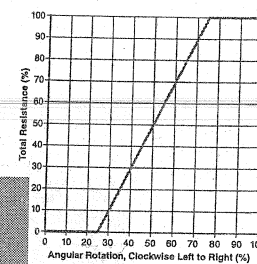
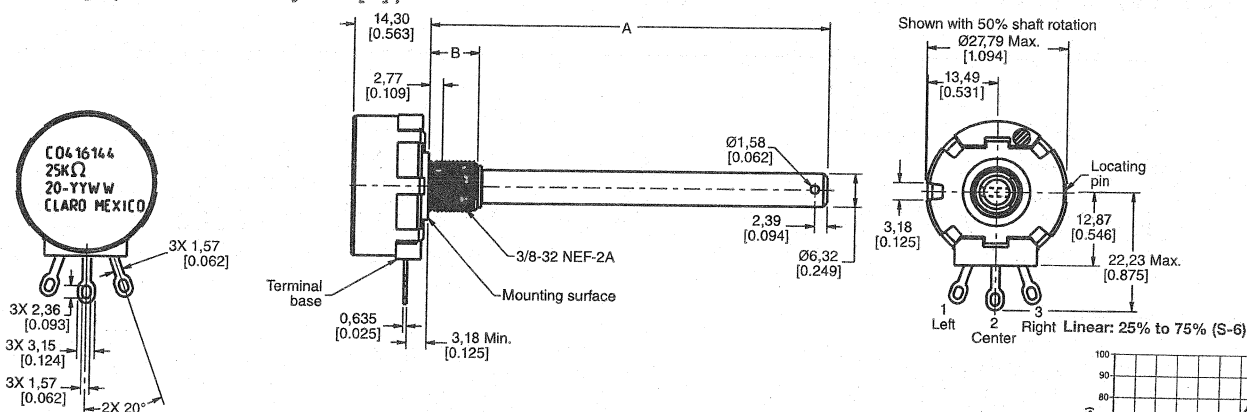
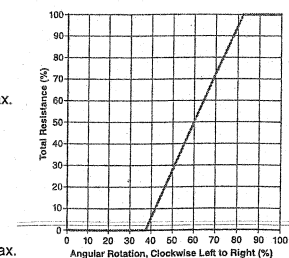
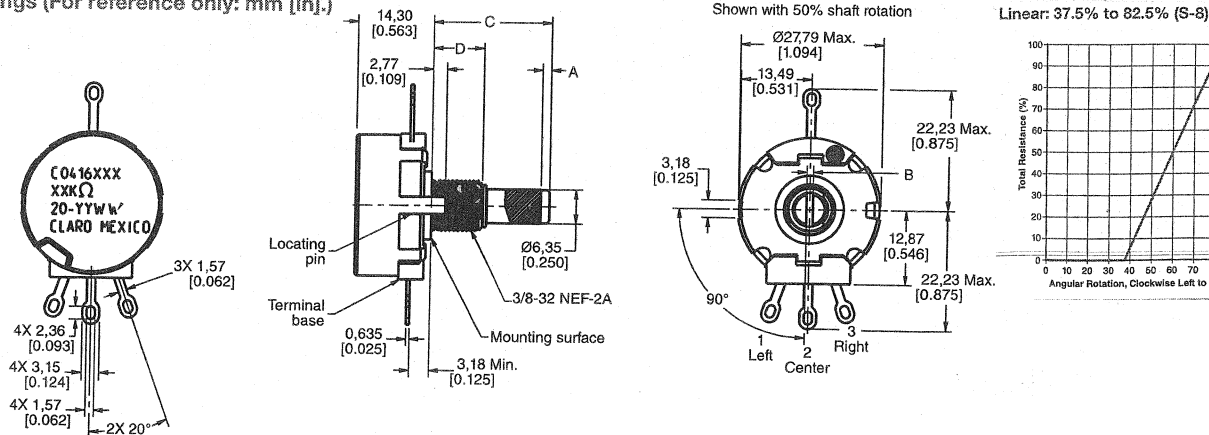


Table 485-H Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Length (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485025M9428	10 k	10	4	4	263	312	S-8	312	1-6 [7-42]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	22,23 [0.875]	9,53 [0.375]	yes	unassembled
485042M9576	1 k	10	4	4	263	312	S-8	312	1-6 [7-42]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	22,23 [0.875]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)



485 Series Order Guides

Table 485-I Order Guide

Catalog Listing	Electrical						Mechanical					Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Length (mm [in])	B Depth Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485000M8723	5 k	10	4	4	284	312	S-9	312	1-4 [1-28]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	22,23 [0.875]	9,53 [0.375]	yes	unassembled
485000M9564	50 k	10	4	4	284	312	S-9	312	1-4 [1-28]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	22,23 [0.875]	9,53 [0.75]	yes	unassembled
485000M9641	10 k	10	4	4	284	312	S-9	312	1-4 [1-28]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	22,23 [0.875]	9,53 [0.375]	yes	unassembled
485000M9708	1 k	10	4	4	284	312	S-9	312	1-4 [1-28]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	15,88 [0.625]	6,35 [0.250]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)

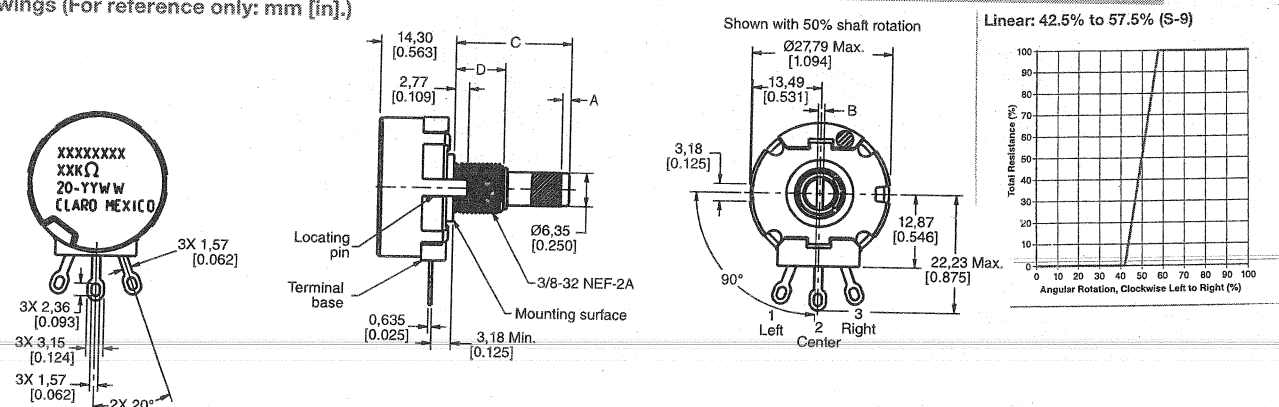
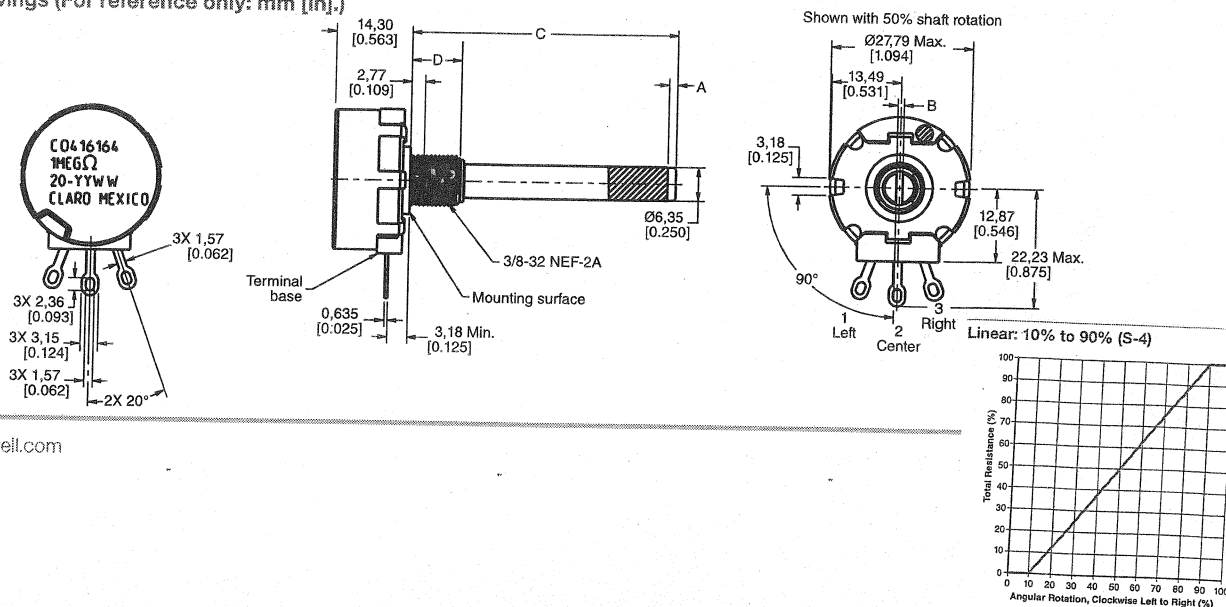


Table 485-J Order Guide

Catalog Listing	Electrical						Mechanical					Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Length (mm [in])	B Depth Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485000M9017	1 M	10	10	10	284	312	S-4	312	1-4 [1-28]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	50,8 [2.000]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)



485 Series Order Guides

Table 485-K Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN·m [in·oz])	Stop Torque (N·m [in·lb])	Shaft Seal	A Slot Depth (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485042M9668	10 k	10	4	100	284	311	S-7	312	1-6 [7-42]	12 [1.4]	yes	1,60 [0.063]	1,19 [0.047]	22,23 [0.875]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)

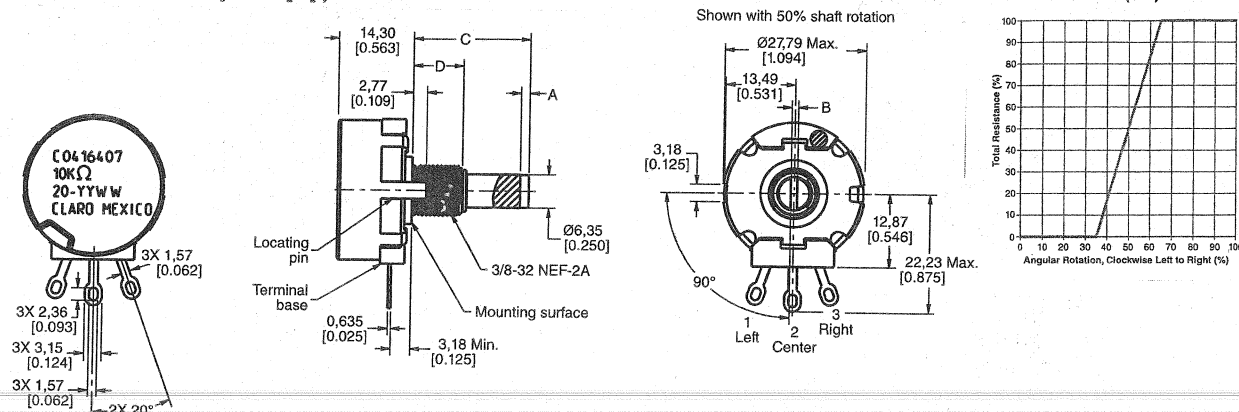
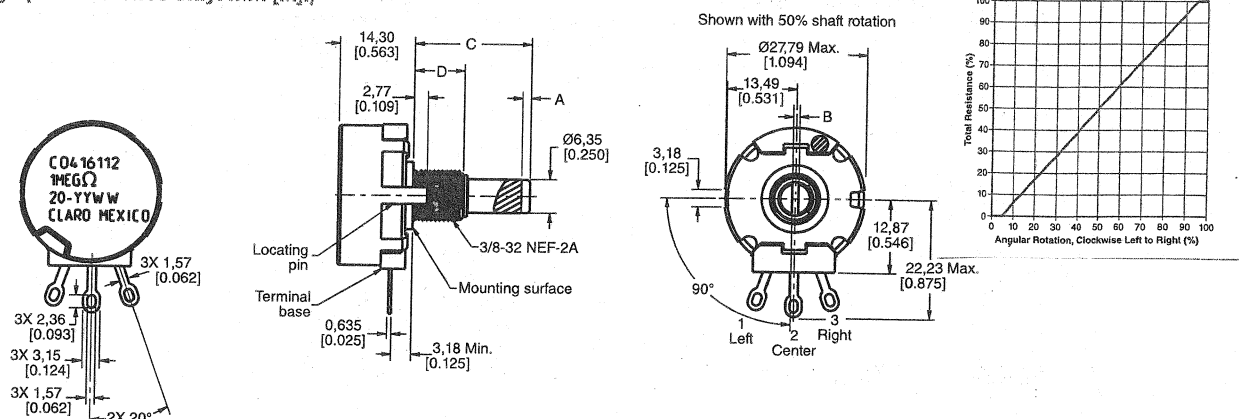


Table 485-L Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN·m [in·oz])	Stop Torque (N·m [in·lb])	Shaft Seal	A Slot Depth (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485000M8911	1 M	10	10	10	304	312	S-2	312	1-4 [7-28]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	22,23 [0.875]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)



485 Series Order Guides

Table 485-M Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Depth (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485010M6860	5 k	10	4	4	33	312	S-9	312	1-4 [7-28]	12 [1.4]	no	1.60 [0.063]	1.19 [0.047]	27.19 [1.031]	7.92 [0.312]	yes	unassembled

Dimensional Drawings (For reference only: mm [in.])

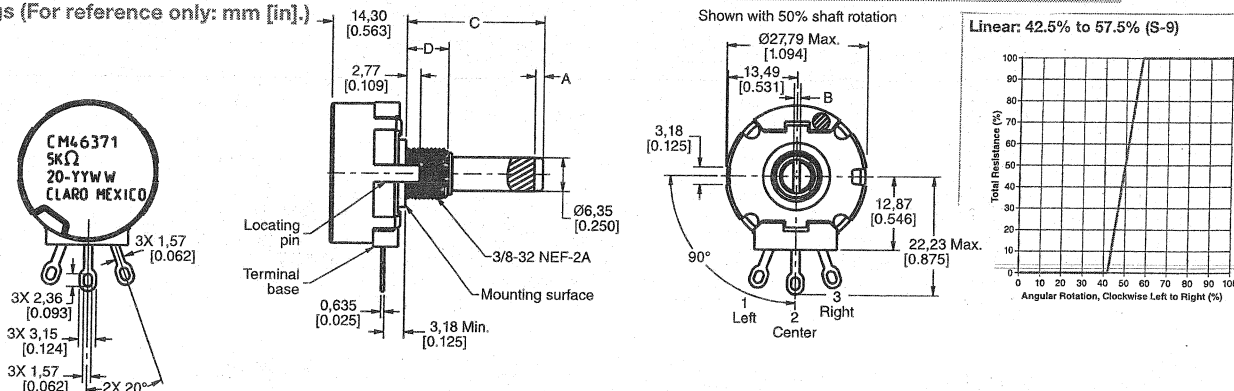
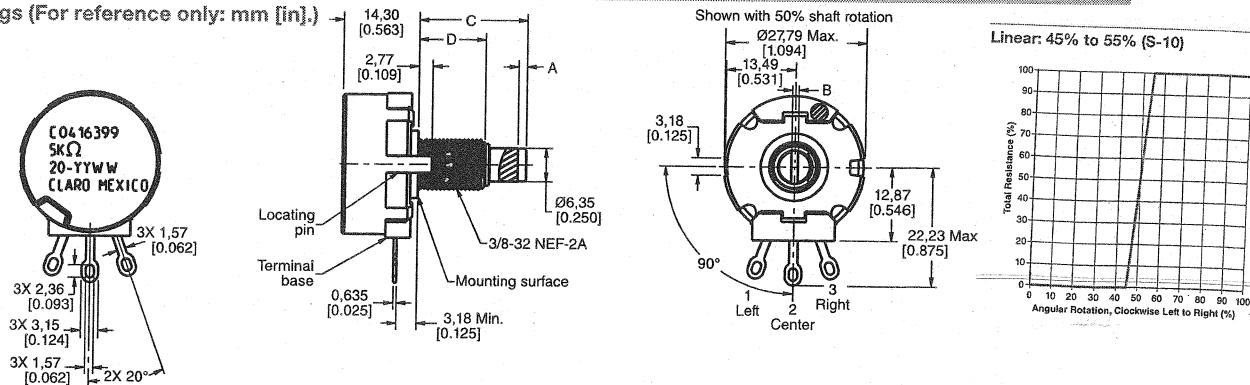


Table 485-N Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Depth (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485000M8990	5 k	10	4	4	45	312	S-10	312	1-6 [7-42]	12 [1.4]	yes	1,60 [0.063]	1,19 [0.047]	20,62 [0.812]	12,7 [0.500]	yes	unassembled
485008M0002	5 k	10	4	4	45	312	S-10	312	1-6 [7-42]	12 [1.4]	yes	1,60 [0.063]	1,19 [0.047]	50,8 [2.000]	12,7 [0.500]	no	unassembled
485008M8967	5 k	10	4	4	45	312	S-10	312	1-6 [7-42]	12 [1.4]	yes	1,60 [0.063]	1,19 [0.047]	50,8 [2.000]	12,7 [0.500]	yes	unassembled
485008M9458	5 k	10	4	4	45	312	S-10	312	1-6 [7-42]	12 [1.4]	yes	1,60 [0.063]	1,19 [0.047]	50,8 [2.000]	9,53 [0.375]	yes	unassembled
485008M9687	5 k	10	4	4	45	312	S-10	312	1-6 [7-42]	12 [1.4]	yes	1,60 [0.063]	1,19 [0.047]	47,63 [1.875]	9,53 [0.375]	yes	unassembled
485008M9688	5 k	10	4	4	45	312	S-A	312	1-6 [7-42]	12 [1.4]	yes	1,60 [0.063]	1,19 [0.047]	39,88 [1.570]	12,7 [0.500]	yes	unassembled

Dimensional Drawings (For reference only: mm [in.])



485 Series Order Guides

Table 485-O Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (+/-%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, +/-3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Depth (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485008M0004	5 k	10	4	4	45	312	S-10	312	1-6 [7-42]	12 [1.4]	yes	1,60 [0.063]	1,19 [0.047]	25,4 [1.000]	12,7 [0.500]	no	unassembled

Dimensional Drawings (For reference only: mm [in].)

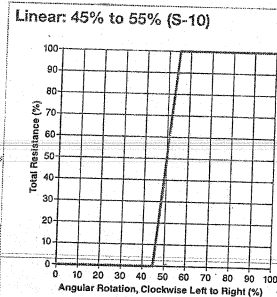
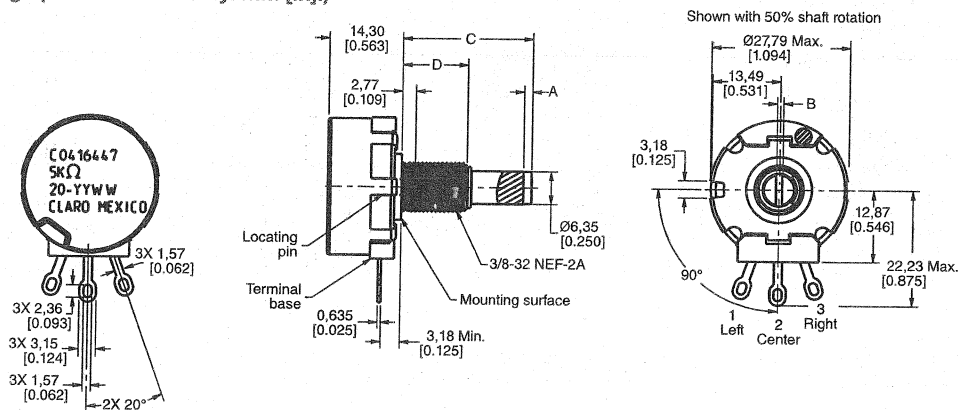
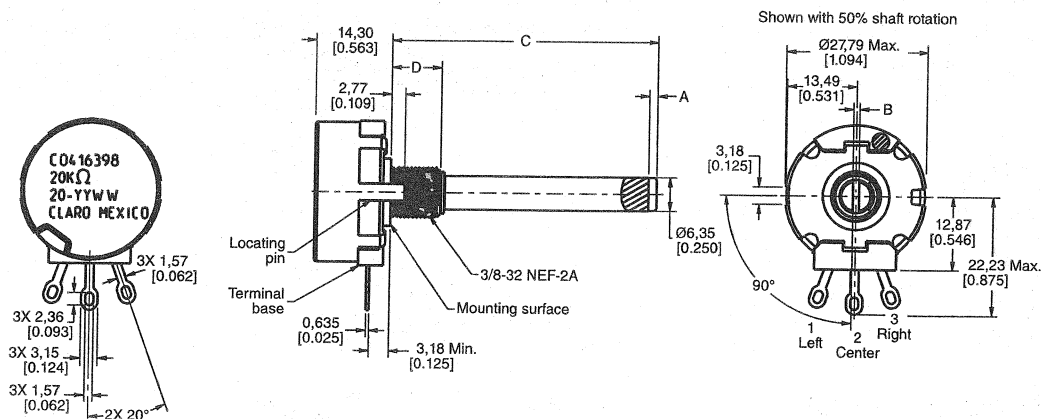


Table 485-P Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Depth (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485000M9651	20 k	10	4	4	46	312	S-10	312	1-4 [7-28]	12 [1.4]	no	1,60 [0.063]	1,19 [0.047]	50,8 [2.000]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)



485 Series Order Guides

Table 485-Q Order Guide

Catalog Listing	Electrical							Mechanical			Dimensions				RoHS Compliant	Mounting Hardware	
	Resistance (Ohm)	Resistance Tolerance (± %)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Depth (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])			D Bushing Length (mm [in])
485030M9652	10 k	10	4	4	270	348	S-12	360	1-4	-	no	1,60 [0.063]	1,19 [0.047]	50,8 [2.000]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)

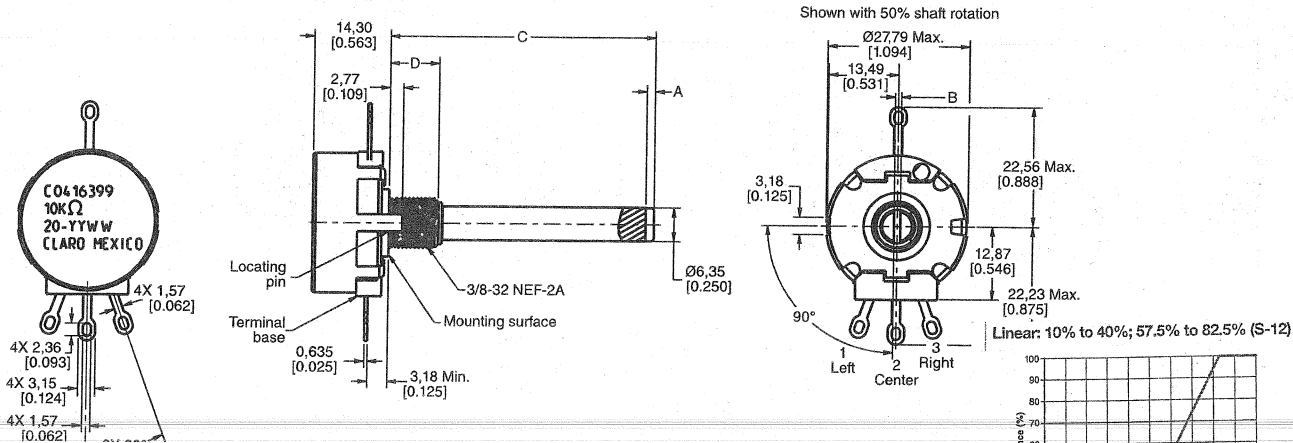
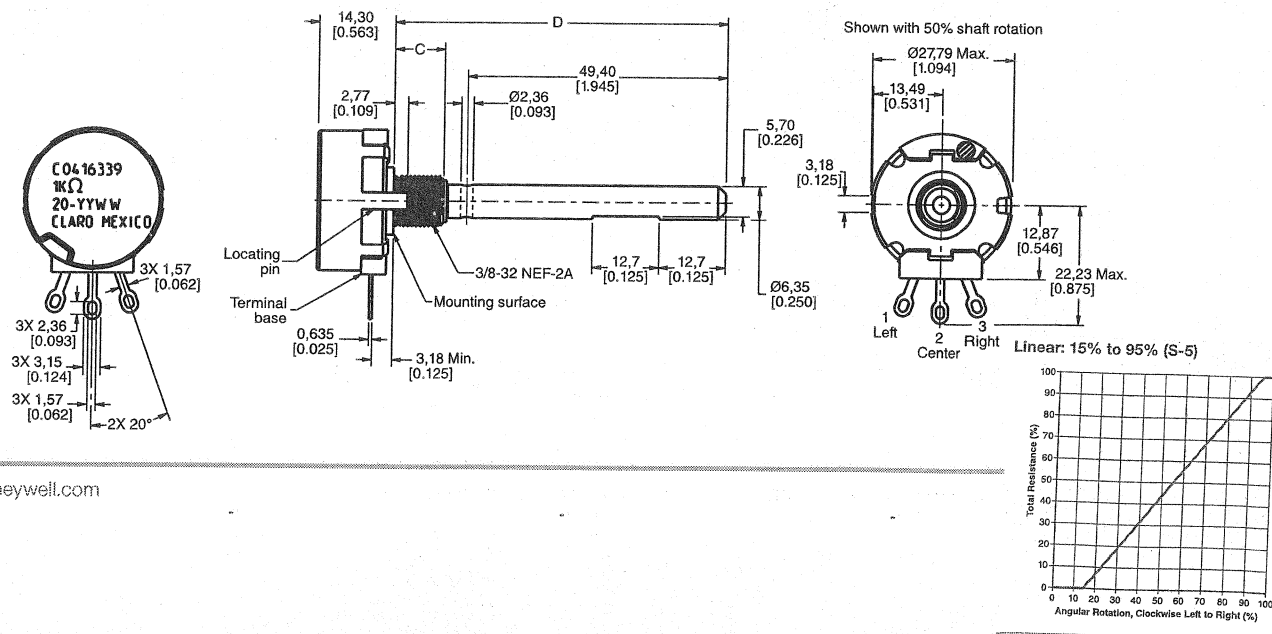


Table 485-R Series Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions		RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Shaft Length (mm [in])	B Bushing Length (mm [in])		
485040M9512	1 k	10	4	4	250	312	S-5	312	1-4	12	no	63,5 [2.500]	9,53 [0.375]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)



485 Series Order Guides

Table 485-S Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions				RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, +3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Slot Depth (mm [in])	B Slot Width (mm [in])	C Shaft Length (mm [in])	D Bushing Length (mm [in])		
485048M9728	5 k	5	4	4	45	312	S-15	312	1-6	12	yes	0,23 [0.009]	1,19 [0.047]	25,15 [0.990]	12,7 [0.500]	no	unassembled

Dimensional Drawings (For reference only: mm [in].)

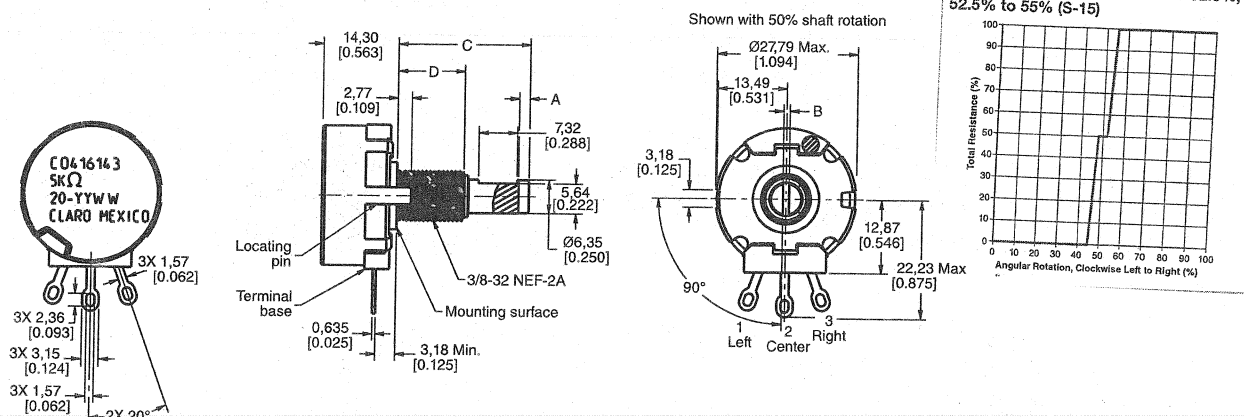


Table 485-T Order Guide

Catalog Listing	Electrical							Mechanical				Dimensions		RoHS Compliant	Mounting Hardware
	Resistance (Ohm)	Resistance Tolerance (±%)	End Resistance at CW, Max. (Ohm)	End Resistance at CCW, Max. (Ohm)	Effective Electrical Rotation, Typ. (Degree)	Electrical Rotation, ±3 (Degree)	Taper	Mechanical Rotation (Degree)	Operating Torque (mN m [in-oz])	Stop Torque (N m [in-lb])	Shaft Seal	A Shaft Length (mm [in])	B Bushing Length (mm [in])		
485022M8995	20 k	10	4	4	158	348	S-8	360	1-4	-	no	19,05 [0.750]	8,69 [0.342]	yes	unassembled

Dimensional Drawings (For reference only: mm [in].)

