

Technical Documentation

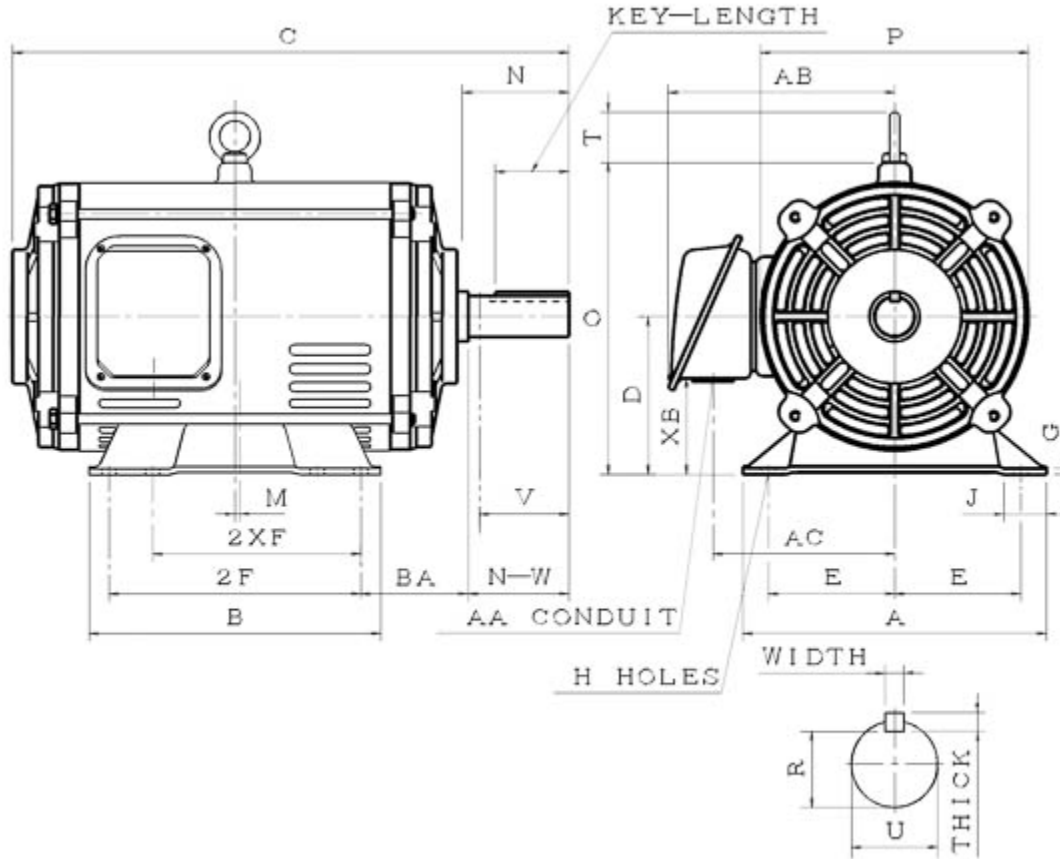
RD03045

Rolled Steel ODP | ASGH

Date: July 10, 2017

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RD03045	ASGH	30	4	22	Continuous	575 V	60	1800



ASGH-SMP-5

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
286T	11	11		0.53	4.75	12.76	12.76	25.38		7	
G	J	K	L	M	O	P	T	Key			Keyseat
0.24	1.65			0.35	14.28	12.4	2.36	Width	Thick	Length	R
								0.5	0.5	3.28	1.591
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
2.05	10.43	8.27	4.2								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
4.62	1.875	4.5	6311ZZC3	6211ZZC3	346	62	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: ASGH

Catalogue No: RD03045

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	4	1770	286T	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
ODP	F	1.15	Continuous	B	-40 to 40°C °C	<3300 ft

Typical Performance

Efficiency (%)				Power Factor (%)		
Full Load		3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
Nom.	Min.					
94.1	93.0	94.0	94.0	86.0	82.5	74.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
88.99	230	175	245	9.2	27.8	174
NEMA KVA Code	Inertia (WR ²)			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft ²)	NEMA Load (lb-ft ²)	Max. Allowable (lb-ft ²)	Cold	Hot	
G	4.397	144	202	17	12	62

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-120Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6311ZZC3	6211ZZC3	346

Hazardous Locations Information

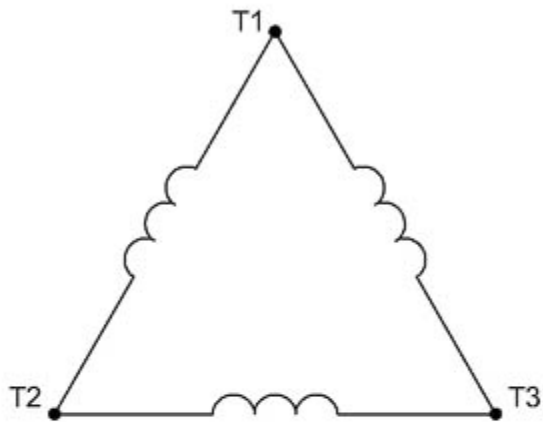
N/A	
0	
0	
Temp Code (Sinewave / VFD)	0 / 0

Nameplate Drawing

Rolled Steel ODP

TYPE	ASGH	CAT. NO.	RD03045		
OUTPUT	30 HP 22 kW	FRAME	286T	ODP	
R.P.M.	1770	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	27.8	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 94.1		MIN. EFF. 93.0	
BEARINGS	6311ZZC3 / 6211ZZC3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 346 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

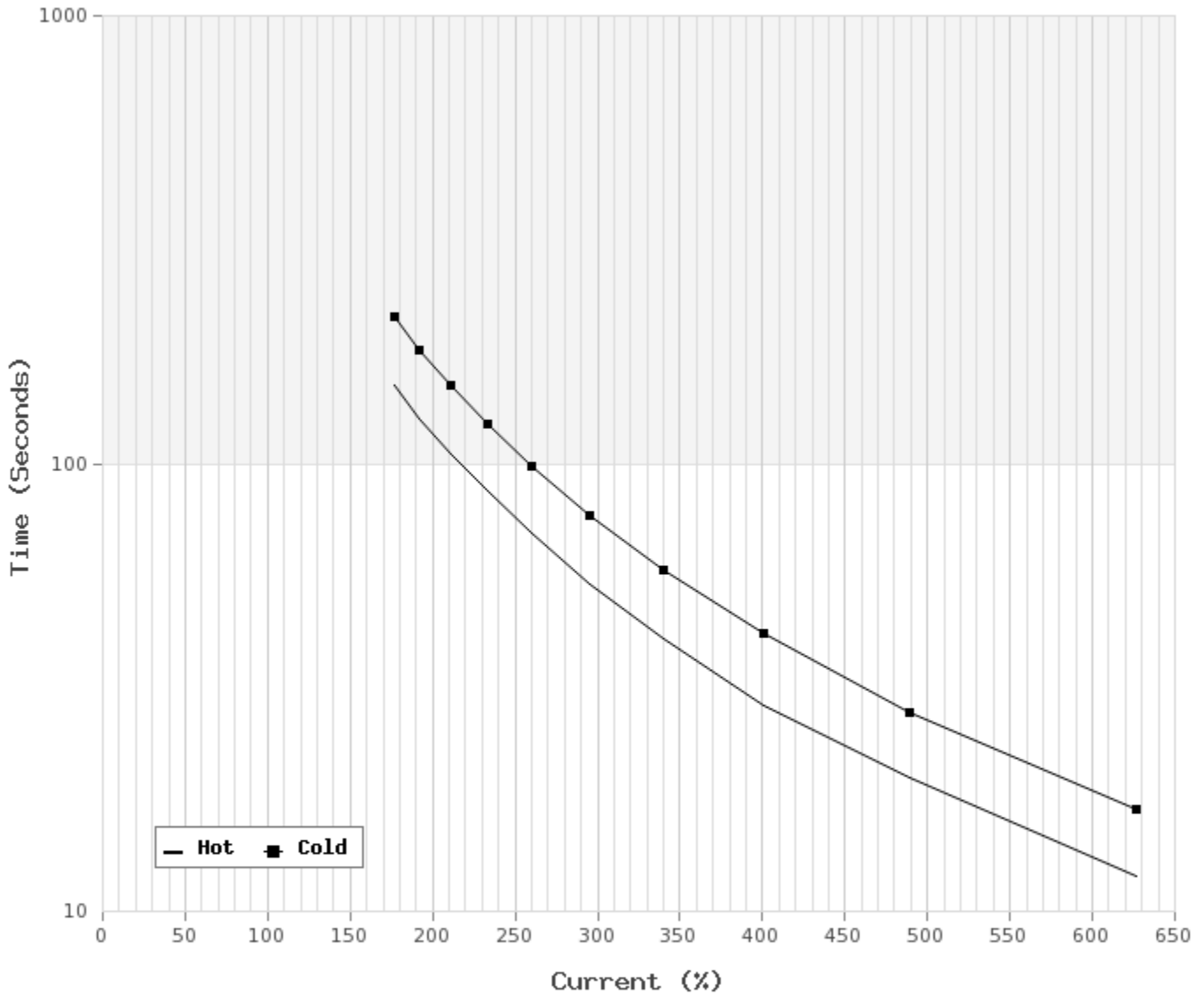


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: ASGH		Catalogue No: RD03045		Family: Rolled Steel ODP	
HP	30	Safe Stall Time		Full Load A	0.0 / 27.8 A
Voltage	0 / 575V 60Hz	Hot	12 s	Locked Rotor A	627 %
RPM	1800	Cold	17 s	Locked Rotor A	0.0 / 174 A



T-N and I-N Curves

Motor Type: ASGH		Catalogue No: RD03045		Family: Rolled Steel ODP	
HP	30	Full Load T	88.99 lb-ft	Full Load A	27.8 A
Voltage	575V 60Hz	Locked Rotor T	230 %	Locked Rotor A	174.0 A
RPM	1800	Pull Up T	175 %	Break Down T	245 %

