

Technical Documentation

PDH03025C
Optim TEFC | AEHH8N

Date: November 30, 2016

Technical Data Sheet

Motor Type: AEHH8N

Catalogue No: PDH03025C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	2	3545	286TSC	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	F	1.15	Continuous	B	-40 to 40 °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.					
93.0	91.7	93.6	93.0	91.0	90.5	87.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
44.43	175	140	240	4.8	26.6	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	2.831	30.0	73.0	24	17	77

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-90Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

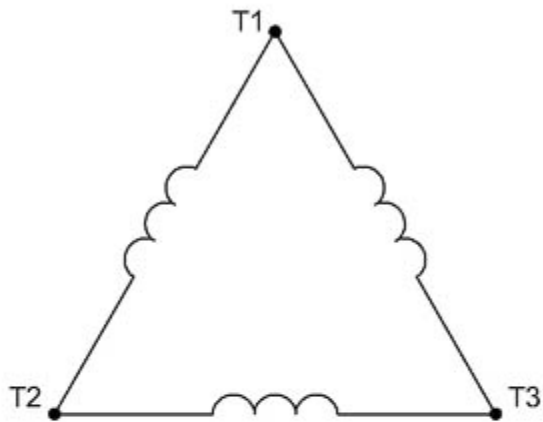
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6211C3	6211C3	482

Hazardous Locations Information

CSA Certified	
Class I, Div 2, Groups B, C & D	
Class I, Zone 2, Groups IIB+H2, IIB & IIA	
Temp Code (Sinewave / VFD)	T3C / T3B

Connection Diagram

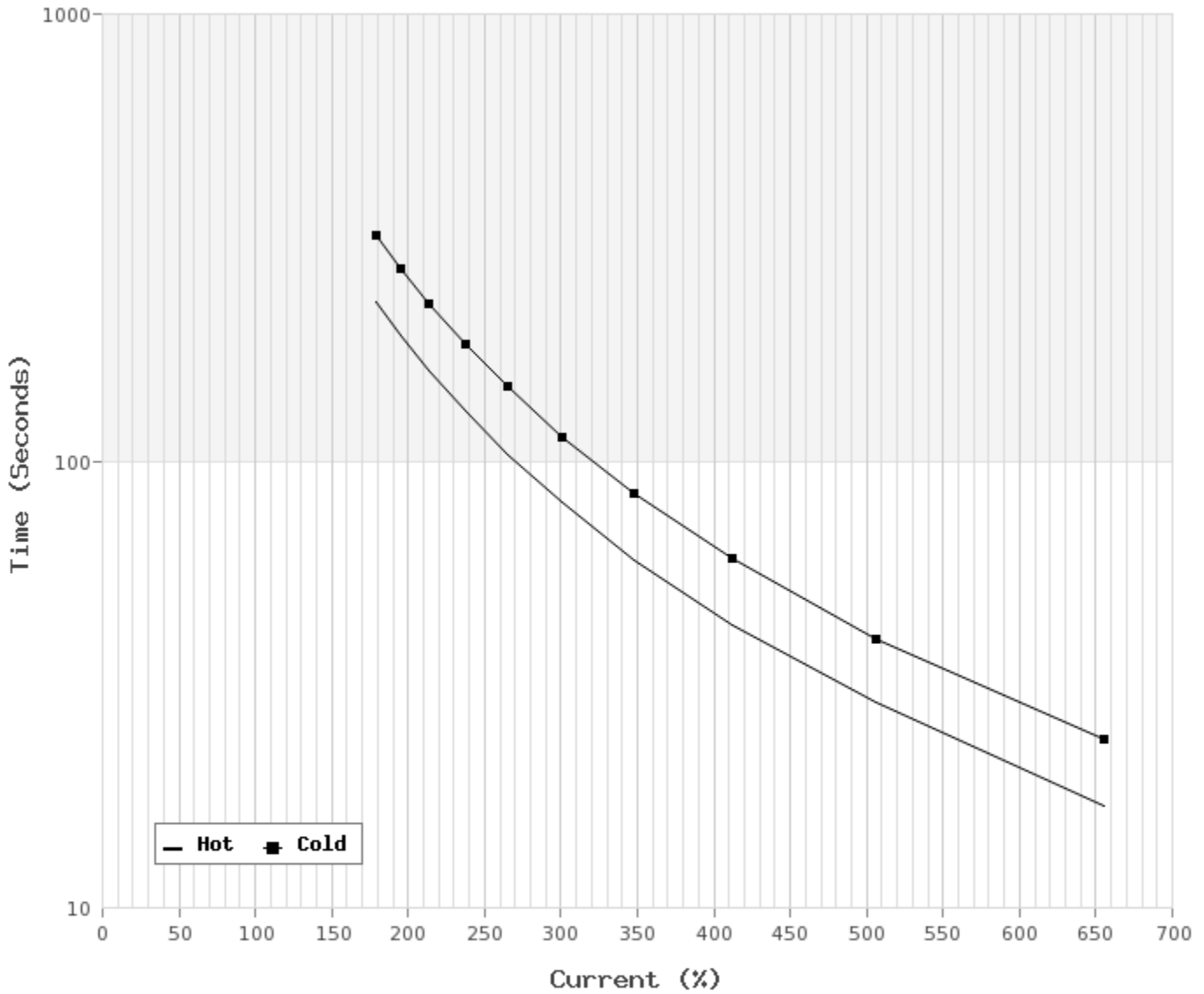


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8N		Catalogue No: PDH03025C		Family: Optim TEFC	
HP	30	Safe Stall Time		Full Load A	0.0 / 26.6 A
Voltage	0 / 575V 60Hz	Hot	17 s	Locked Rotor A	655 %
RPM	3600	Cold	24 s	Locked Rotor A	0.0 / 174 A



T-N and I-N Curves

Motor Type: AEHH8N		Catalogue No: PDH03025C		Family: Optim TEFC	
HP	30	Full Load T	44.43 lb-ft	Full Load A	26.6 A
Voltage	575V 60Hz	Locked Rotor T	175 %	Locked Rotor A	174.0 A
RPM	3600	Pull Up T	140 %	Break Down T	240 %

