

Technical Documentation

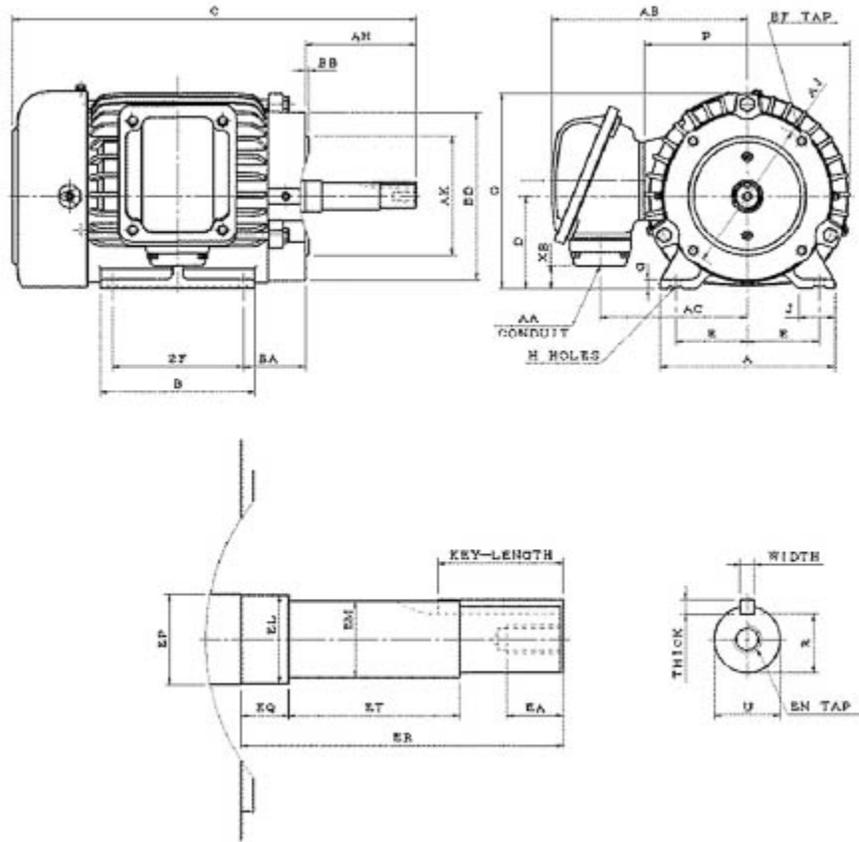
# **CJM0016**

## **Optim JM | AEHH8N\_JM**

Date: November 29, 2016

**Dimensional Drawing**

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
CJM0016	AEHH8N_JM	1	6	0.75	Continuous	230 / 460 V	60	1200



AEHH8N-JM-SMP-1

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
145JM	2.75	5		0.34	2.38	6.7	5.9	15.67		3.5	
G	J	K	L	M	O	P	T	Key			Keyseat
0.35	1.4				7.45	7.87		Width	Thick	Length	R
								0.188	0.188	1.65	0.771
Terminal Housing			Aux Box			C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
3/4"	7.56	5.63	0.86			0.156	4.25	4.5	6.38	5.875	4-3/8"-16UNC
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
	0.875		6205ZZ	6205ZZ	59	50	F	1.15	DirectCoupling	Inches	

### Technical Data Sheet

Motor Type: AEHH8N\_JM

Catalogue No: CJM0016

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
1	6	1150	145JM	230 / 460	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.					
82.5	80.0	82.5	80.0	65.5	87.0	44.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
4.57	250	220	300	2.3 / 1.2	3.5 / 1.7	30 / 15
NEMA KVA Code	Inertia (WR <sup>2</sup> )			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft <sup>2</sup> )	NEMA Load (lb-ft <sup>2</sup> )	Max. Allowable (lb-ft <sup>2</sup> )	Cold	Hot	
N	0.122	15	100	60	42	50

#### 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

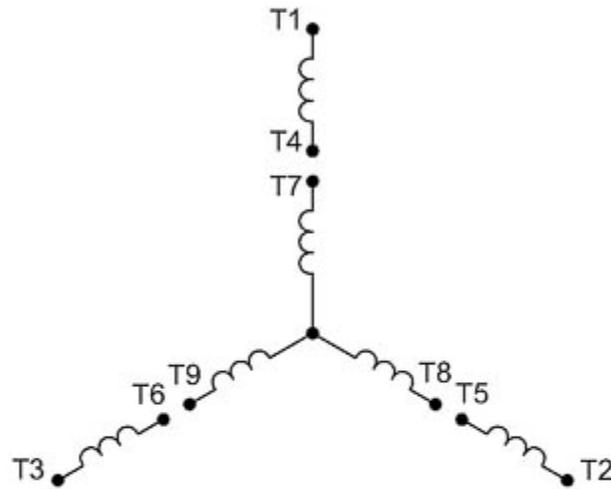
#### Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6205ZZ	6205ZZ	59

#### 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 / T3C

**Connection Diagram**

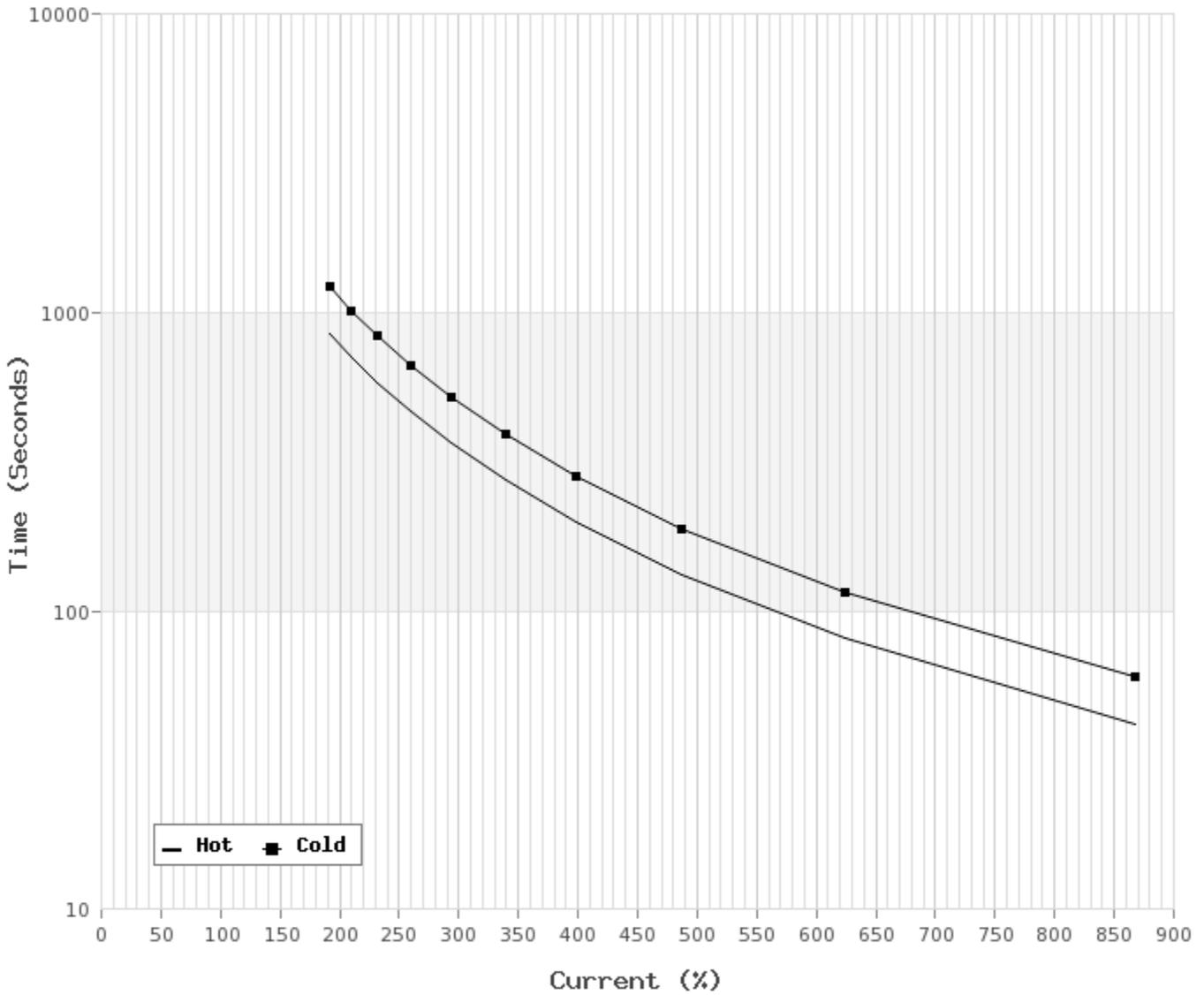


9 LEAD DUAL VOLTAGE WYE					
VOLTAGE	CONN.	L1	L2	L3	JOIN
HIGH	WYE	1	2	3	4&7,5&8,6&9
LOW	2 WYE	1,7	2,8	3,9	4&5&6

WD\_9Y

**Thermal Limit Curves**

Motor Type: AEHH8N_JM		Catalogue No: CJM0016		Family: Optim JM	
HP	1	Safe Stall Time		Full Load A	3.5 / 1.7 A
Voltage	230 / 460V 60Hz	Hot	42 s	Locked Rotor A	867 / 867 %
RPM	1200	Cold	60 s	Locked Rotor A	30.0 / 15 A



**T-N and I-N Curves**

Motor Type: AEHH8N_JM		Catalogue No: CJM0016		Family: Optim JM	
HP	1	Full Load T	4.57 lb-ft	Full Load A	3.5 / 1.7 A
Voltage	230 / 460V 60Hz	Locked Rotor T	250 %	Locked Rotor A	30.0 / 15.0 A
RPM	1200	Pull Up T	220 %	Break Down T	300 %

