


Technical Documentation

CJM7/545

Optim JM | AEHH8N_JM

Date: April 14, 2021

	
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Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM7/545
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
7.5	4	1755	213JM	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 °C	<1000 m

Typical Performance

Efficiency (%)				Power Factor (%)		
Full Load		3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
Nom.	Min.					
91.70	90.20	91.00	89.50	86.50	82.00	72.00
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
22.44	250	155	270	2.2	7.1	51.20
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	
H	0.848	39.00	110.00	29	20	60.0

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-120Hz	0	VPWM or CPWM	1.0 Only

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

Additional Certifications

Other Certification

Additional Information

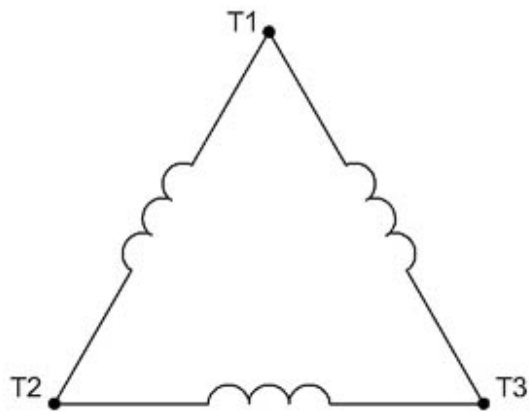
Bearings		Approx. Weight
DE	NDE	lbs
6309ZZ	6307ZZ	174

Nameplate Drawing

Optim JM

TYPE	AEHH8N JM	CAT. NO.	CJM7/545		
OUTPUT	7.5 HP 5.60 kW	FRAME	213JM	TEFC	
R.P.M.	1755	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	7.1	CODE	H	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 91.70		MIN. EFF. 90.20	
BEARINGS	6309ZZ / 6307ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 174 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

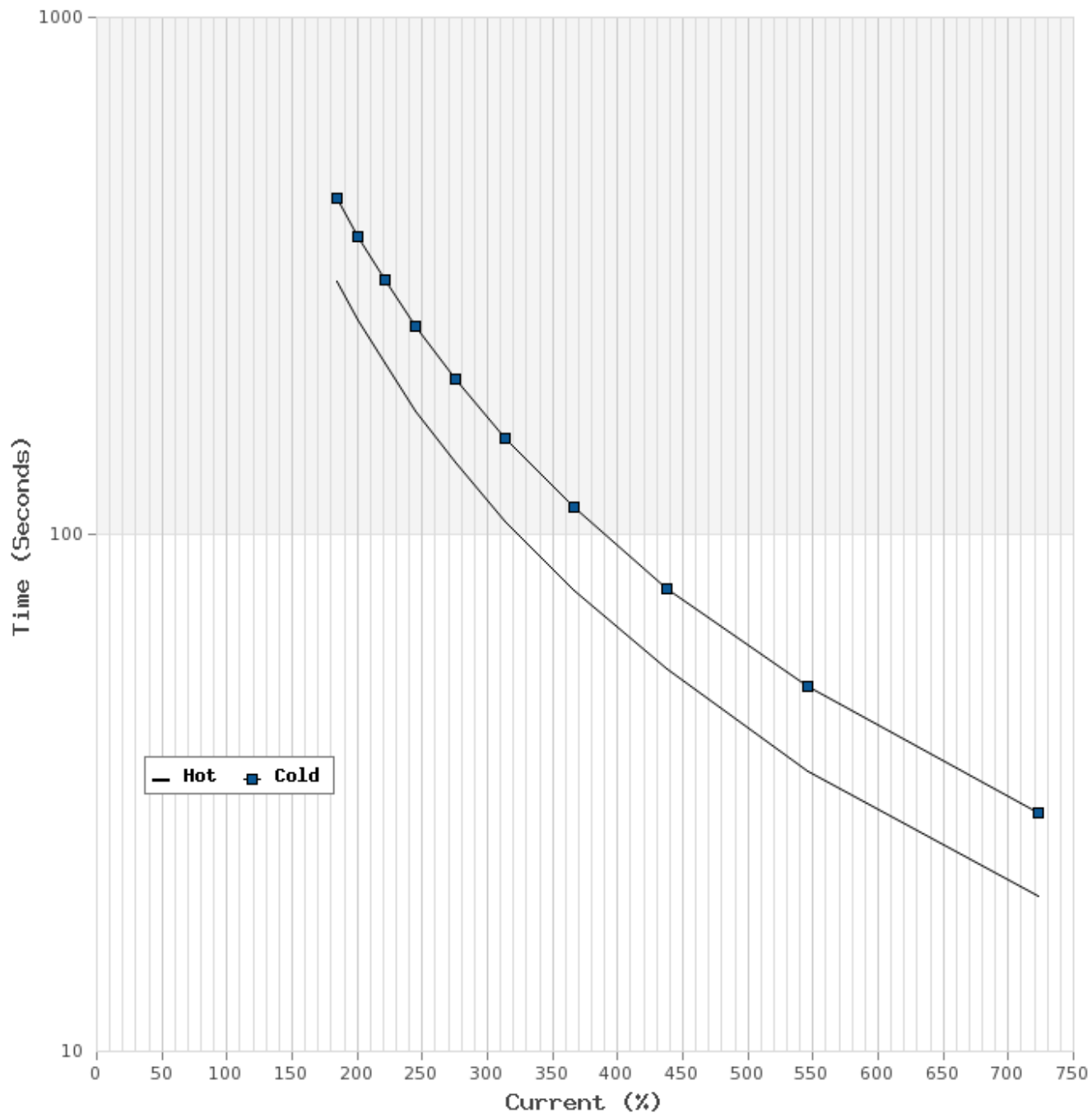


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM7/545		Family: Optim JM	
HP	7.5	Safe Stall Time		Full Load A	7.1 A
Voltage	575V 60Hz	Hot	20 s	% Inrush	723 %
RPM	1800	Cold	29 s	Locked Rotor A	51.20 A



T-N and I-N Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM7/545		Family: Optim JM	
HP	7.5	Full Load T	22.44 lb-ft	Full Load A	7.1 A
Voltage	575V 60Hz	Locked Rotor T	250 %	Locked Rotor A	51.2 A
RPM	1800	Pull Up T	155 %	Break Down T	270 %

