


Technical Documentation

CJM01545

Optim JM | AEHH8N_JM

Date: April 14, 2021

	
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Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM01545
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
15	4	1765	254JM	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.					
92.40	91.00	93.00	92.40	88.00	85.00	77.00
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
44.62	245	180	270	4.8	13.8	92.80
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	2.179	75.00	220.00	32	22	64.0

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

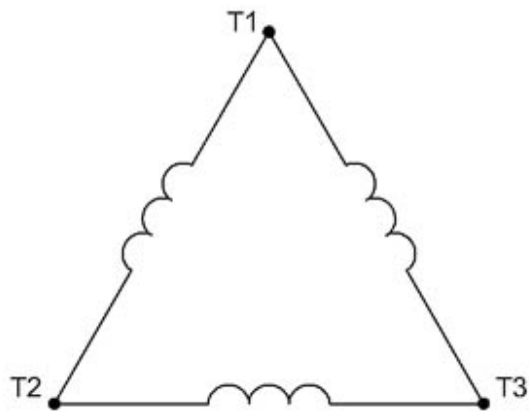
Bearings		Approx. Weight
DE	NDE	lbs
6309ZZ	6307ZZ	312

Nameplate Drawing

Optim JM

TYPE	AEHH8N JM		CAT. NO.	CJM01545		
OUTPUT	15 HP 11.19 kW		FRAME	254JM	TEFC	
R.P.M.	1765		POLE	4	INS.	F
VOLTS	575		PHASE	3	Hz	60
AMPS	13.8		CODE	G	S.F.	1.15
AMBIENT	40 °C		NOM. EFF. 92.40		MIN. EFF. 91.00	
BEARINGS	6309ZZ / 6307ZZ				RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 312 LBS	
PWM VFD DUTY	VT	CT	CP		S.F.	
	3-60Hz	6-60Hz	60-120Hz		1.0 Only	

Connection Diagram

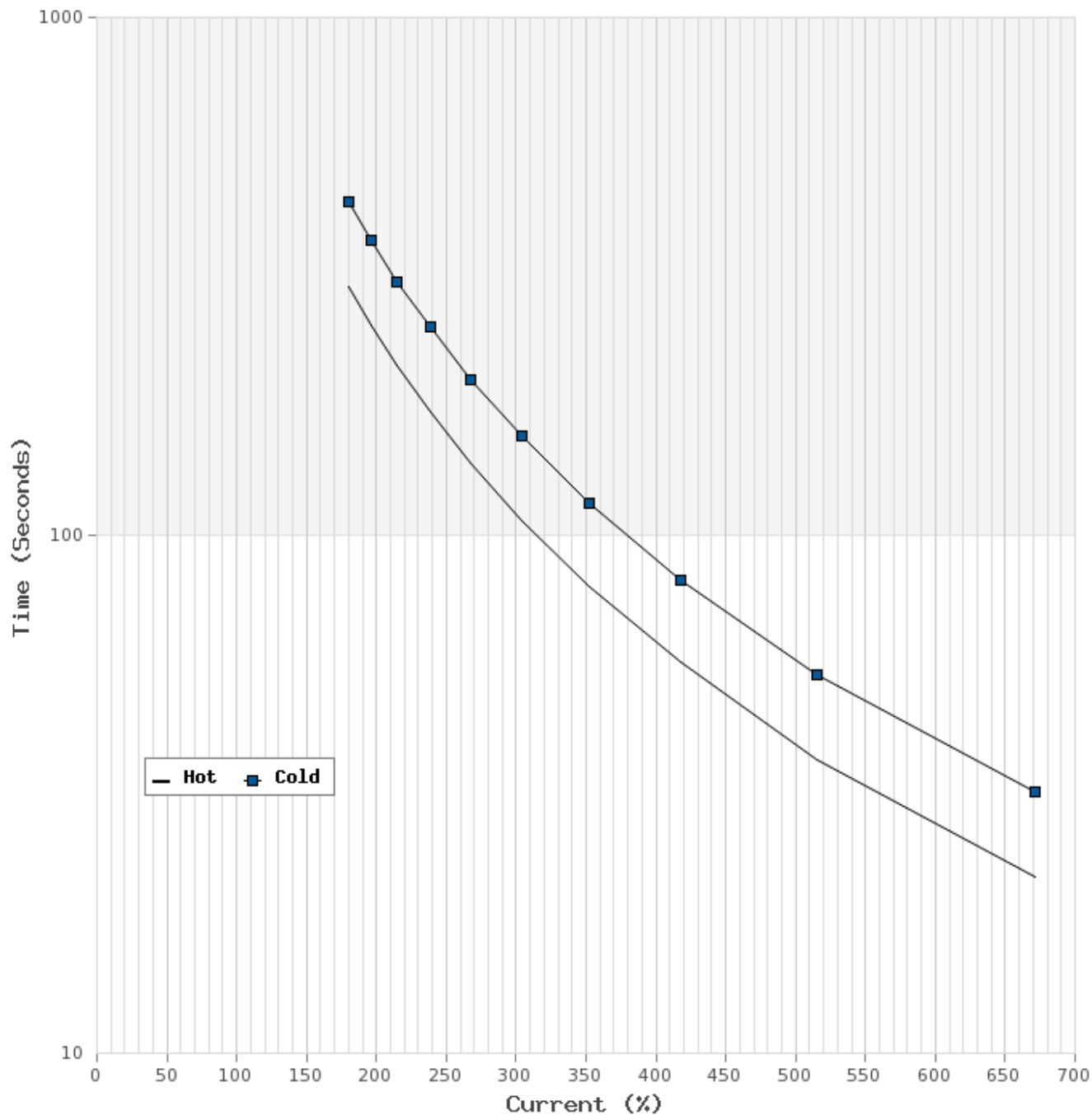


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM01545		Family: Optim JM	
HP	15	Safe Stall Time		Full Load A	13.8 A
Voltage	575V 60Hz	Hot	22 s	% Inrush	671 %
RPM	1800	Cold	32 s	Locked Rotor A	92.80 A



T-N and I-N Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM01545		Family: Optim JM	
HP	15	Full Load T	44.62 lb-ft	Full Load A	13.8 A
Voltage	575V 60Hz	Locked Rotor T	245 %	Locked Rotor A	92.8 A
RPM	1800	Pull Up T	180 %	Break Down T	270 %

