


Technical Documentation

CJM03045

Optim JM | AEHH8N_JM

Date: April 13, 2021

	
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Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM03045
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	4	1770	286JM	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.					
93.60	92.40	93.60	93.60	87.50	85.50	79.50
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
88.99	200	160	235	7.0	27.4	174.40
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	5.274	144.00	328.00	25	18	70.0

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-90Hz	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

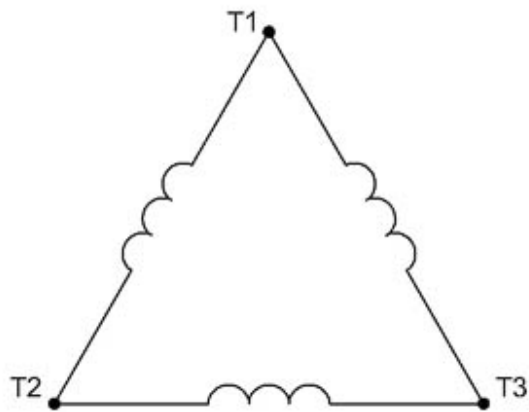
Bearings		Approx. Weight
DE	NDE	lbs
6311ZZ	6310ZZ	517

Nameplate Drawing

Optim JM

TYPE	AEHH8N JM	CAT. NO.	CJM03045		
OUTPUT	30 HP 22.38 kW	FRAME	286JM	TEFC	
R.P.M.	1770	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	27.4	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.60		MIN. EFF. 92.40	
BEARINGS	6311ZZ / 6310ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 517 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

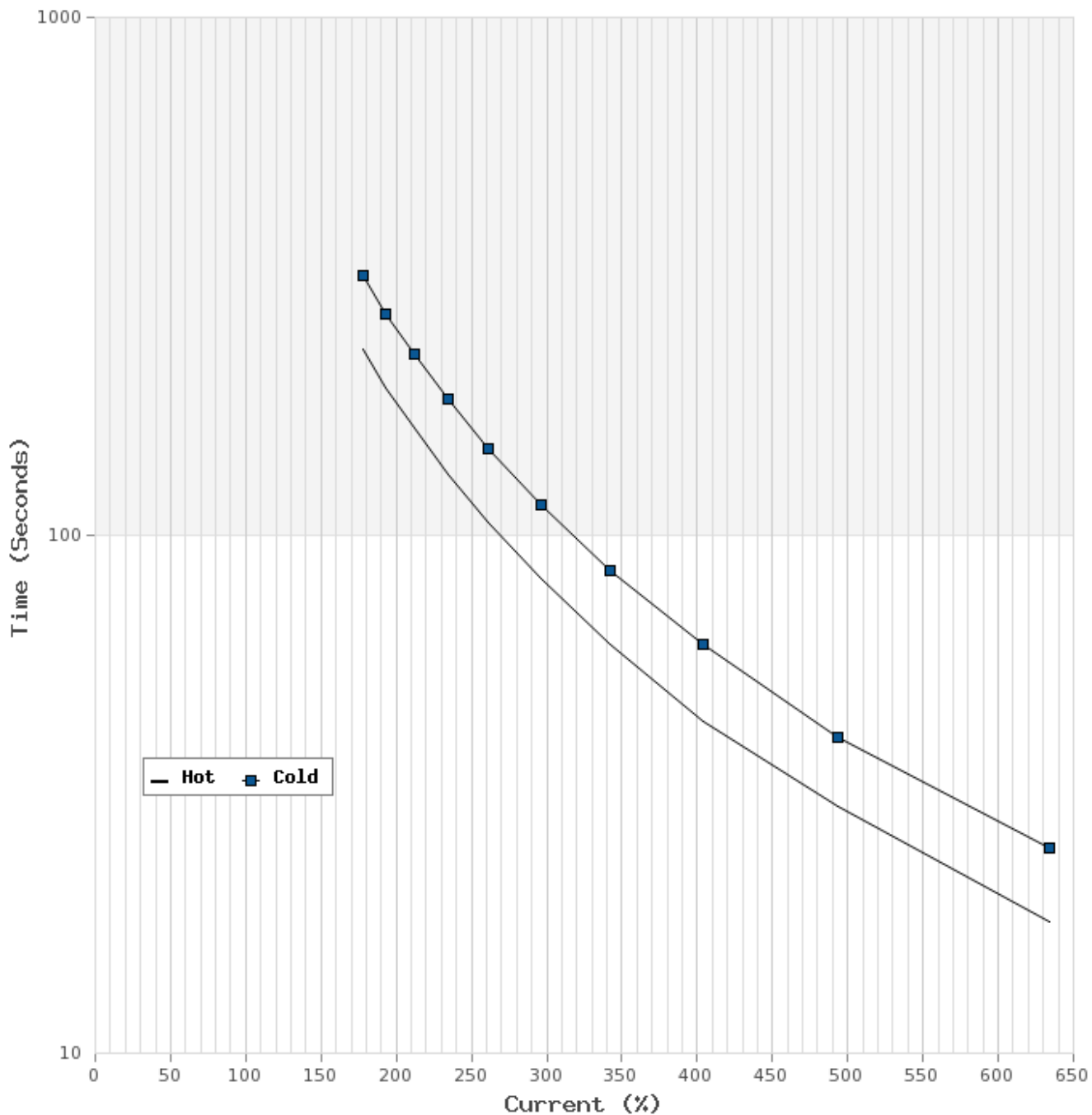


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM03045		Family: Optim JM	
HP	30	Safe Stall Time		Full Load A	27.4 A
Voltage	575V 60Hz	Hot	18 s	% Inrush	636 %
RPM	1800	Cold	25 s	Locked Rotor A	174.40 A



T-N and I-N Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM03045		Family: Optim JM	
HP	30	Full Load T	88.99 lb-ft	Full Load A	27.4 A
Voltage	575V 60Hz	Locked Rotor T	200 %	Locked Rotor A	174.4 A
RPM	1800	Pull Up T	160 %	Break Down T	235 %

