


Technical Documentation

CJM02525

Optim JM | AEHH8N_JM

Date: April 14, 2021

	
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Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM02525
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
25	2	3545	284JM	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	91.00	90.50	86.50
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
37.03	175	135	250	4.4	22.3	146.40
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	2.507	26.00	75.00	32	22	76.0

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	Other Certification
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

Additional Information

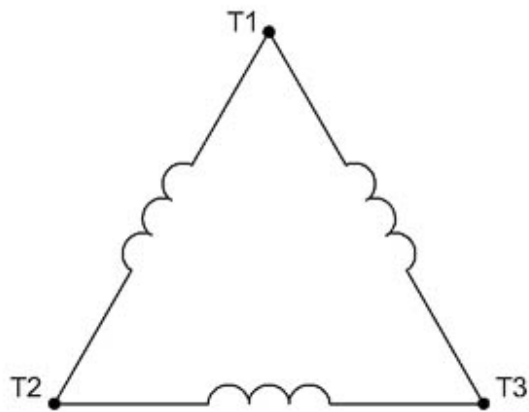
Bearings		Approx. Weight
DE	NDE	lbs
6211C3	6211C3	440

Nameplate Drawing

Optim JM

TYPE	AEHH8N JM		CAT. NO.	CJM02525		
OUTPUT	25 HP	18.65 kW	FRAME	284JM	TEFC	
R.P.M.	3545		POLE	2	INS.	F
VOLTS	575		PHASE	3	Hz	60
AMPS	22.3		CODE	G	S.F.	1.15
AMBIENT	40 °C		NOM. EFF. 92.40		MIN. EFF. 91.00	
BEARINGS	6211C3 / 6211C3				RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 440 LBS	
PWM VFD DUTY	VT	CT	CP		S.F.	
	3-60Hz	6-60Hz	60-90Hz		1.0 Only	

Connection Diagram

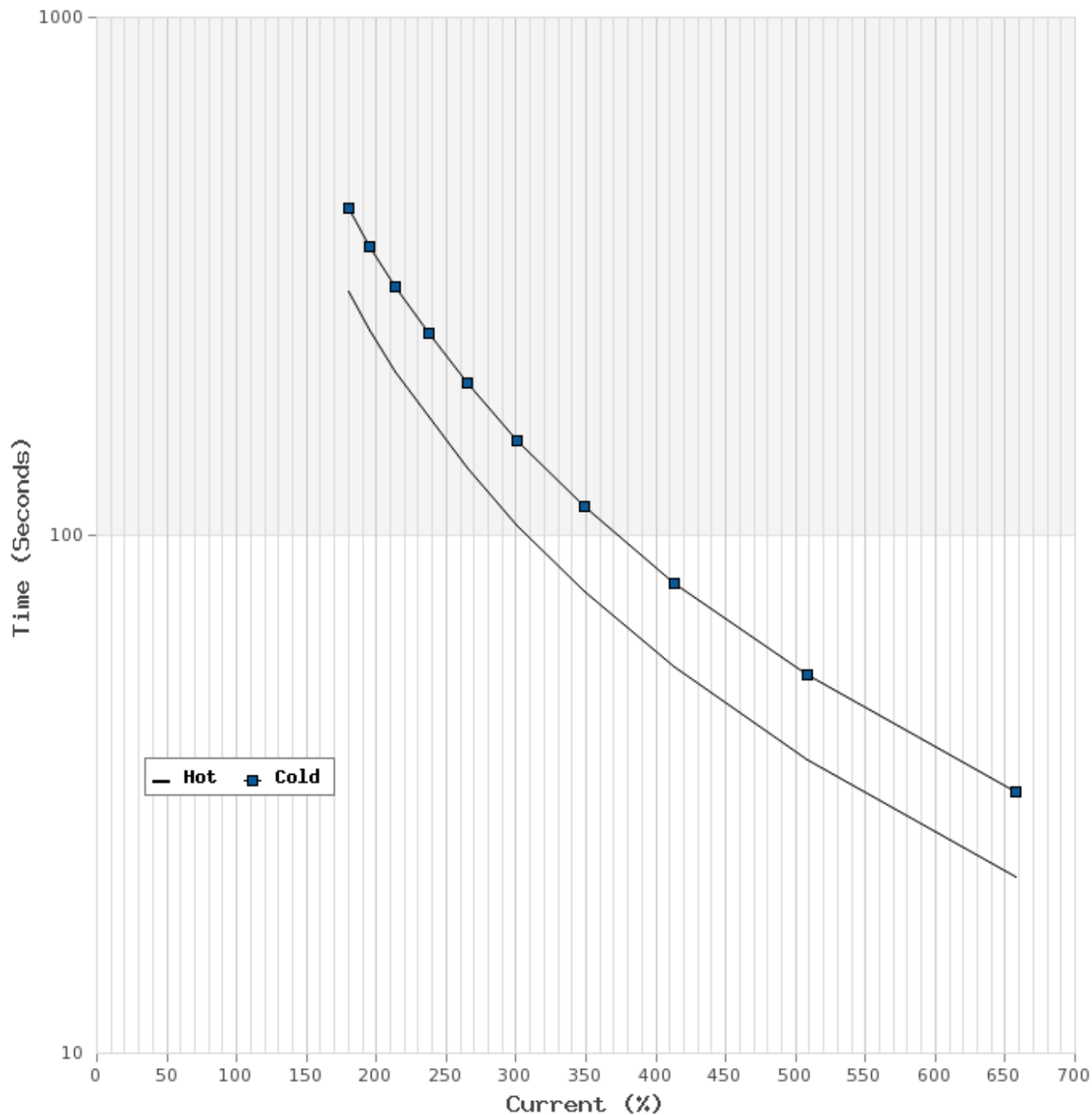


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM02525		Family: Optim JM	
HP	25	Safe Stall Time		Full Load A	22.3 A
Voltage	575V 60Hz	Hot	22 s	% Inrush	657 %
RPM	3600	Cold	32 s	Locked Rotor A	146.40 A



T-N and I-N Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM02525		Family: Optim JM	
HP	25	Full Load T	37.03 lb-ft	Full Load A	22.3 A
Voltage	575V 60Hz	Locked Rotor T	175 %	Locked Rotor A	146.4 A
RPM	3600	Pull Up T	135 %	Break Down T	250 %

