


Technical Documentation

CJM02065
Optim JM | AEHH8N_JM

Date: April 14, 2021

	
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Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM02065
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
20	6	1170	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.					
91.70	90.20	92.40	92.40	84.00	81.00	73.00
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
89.75	210	160	225	6.0	19.5	116.00
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	8.340	262.00	610.00	35	25	66.0

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

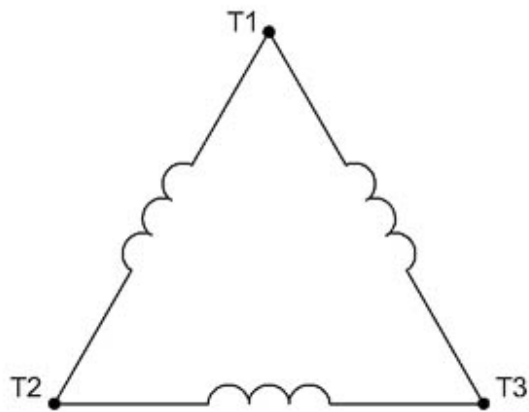
Bearings		Approx. Weight
DE	NDE	lbs
6311ZZ	6310ZZ	510

Nameplate Drawing

Optim JM

TYPE	AEHH8N JM		CAT. NO.	CJM02065		
OUTPUT	20 HP 14.92 kW		FRAME	286JM	TEFC	
R.P.M.	1170		POLE	6	INS.	F
VOLTS	575		PHASE	3	Hz	60
AMPS	19.5		CODE	G	S.F.	1.15
AMBIENT	40 °C		NOM. EFF. 91.70		MIN. EFF. 90.20	
BEARINGS	6311ZZ / 6310ZZ				RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 510 LBS	
PWM VFD DUTY	VT	CT	CP		S.F.	
	3-60Hz	6-60Hz	60-120Hz		1.0 Only	

Connection Diagram

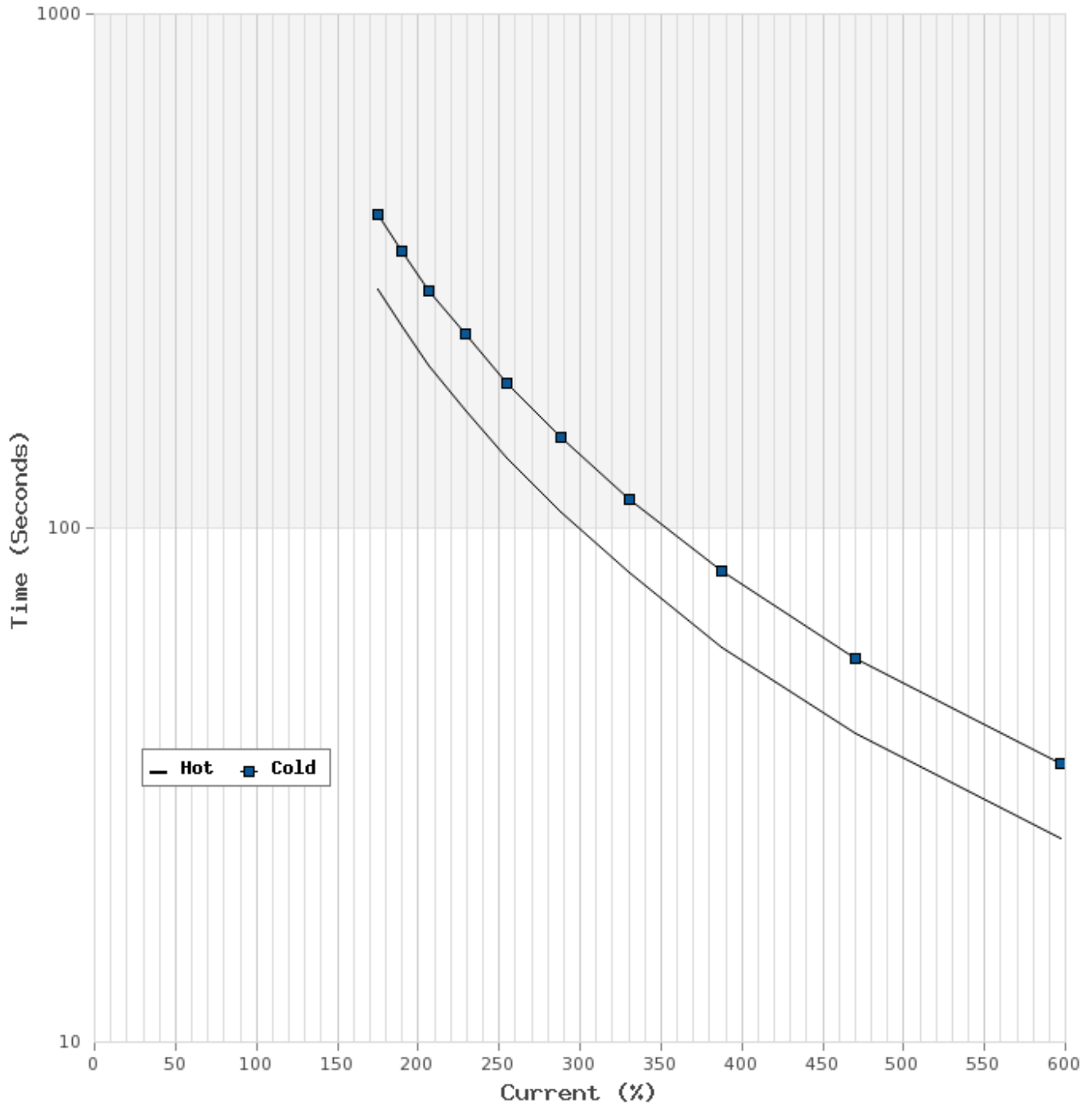


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM02065		Family: Optim JM	
HP	20	Safe Stall Time		Full Load A	19.5 A
Voltage	575V 60Hz	Hot	25 s	% Inrush	596 %
RPM	1200	Cold	35 s	Locked Rotor A	116.00 A



T-N and I-N Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM02065		Family: Optim JM	
HP	20	Full Load T	89.75 lb-ft	Full Load A	19.5 A
Voltage	575V 60Hz	Locked Rotor T	210 %	Locked Rotor A	116.0 A
RPM	1200	Pull Up T	160 %	Break Down T	225 %

