

Technical Documentation

**CJM00565**  
**Optim JM | AEHH8N\_JM**

Date: April 14, 2021

	
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### Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM00565
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#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
5	6	1170	215JM	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.					
91.00	89.50	91.00	89.50	82.50	77.00	65.50
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
22.44	190	160	300	2.3	5.0	36.80
NEMA KVA Code	Inertia (WR <sup>2</sup> )			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft <sup>2</sup> )	NEMA Load (lb-ft <sup>2</sup> )	Max. Allowable (lb-ft <sup>2</sup> )	Cold	Hot	
J	1.224	71.00	416.00	68	48	55.0

#### 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)
T4 / T4

#### Additional Certifications

Other Certification
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#### Additional Information

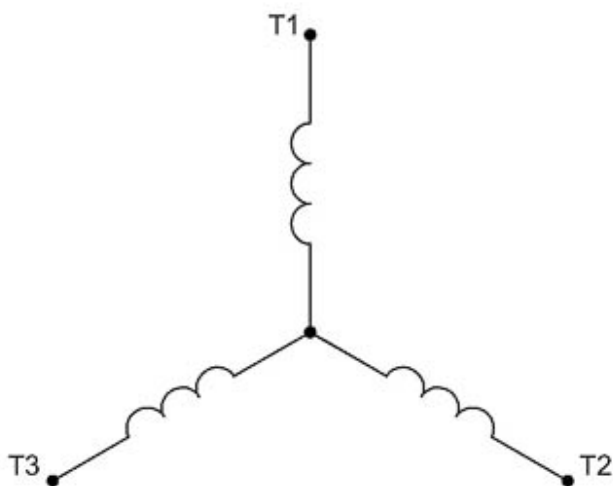
Bearings		Approx. Weight
DE	NDE	lbs
6309ZZ	6306ZZ	196

**Nameplate Drawing**

# Optim JM

TYPE	AEHH8N_JM	CAT. NO.	CJM00565		
OUTPUT	5 HP 3.73 kW	FRAME	215JM	TEFC	
R.P.M.	1170	POLE	6	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	5.0	CODE	J	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 91.00		MIN. EFF. 89.50	
BEARINGS	6309ZZ / 6306ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 196 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

**Connection Diagram**

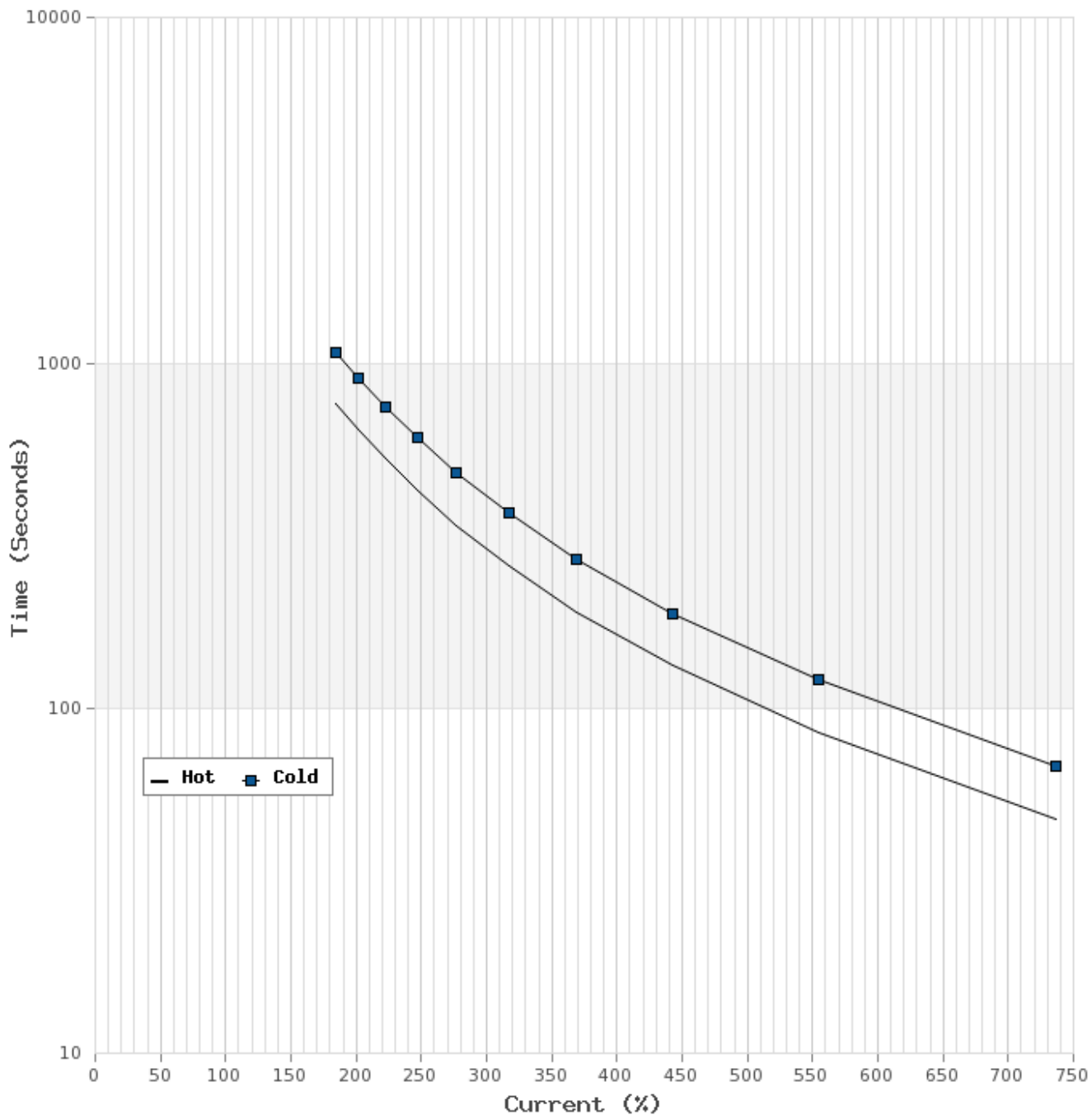


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD\_3Y

### Thermal Limit Curves

Motor Type: AEHH8N_JM		Catalogue No: CJM00565		Family: Optim JM	
HP	5	Safe Stall Time		Full Load A	5.0 A
Voltage	575V 60Hz	Hot	48 s	% Inrush	737 %
RPM	1200	Cold	68 s	Locked Rotor A	36.80 A



**T-N and I-N Curves**

Motor Type: AEHH8N_JM		Catalogue No: CJM00565		Family: Optim JM	
HP	5	Full Load T	22.44 lb-ft	Full Load A	5.0 A
Voltage	575V 60Hz	Locked Rotor T	190 %	Locked Rotor A	36.8 A
RPM	1200	Pull Up T	160 %	Break Down T	300 %

