


Technical Documentation

# **CJM00345**

## **Optim JM | AEHH8N\_JM**

Date: April 14, 2021

 MOTORS (CANADA) INC.	
	Date: April 14, 2021

### Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM00345
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#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
3	4	1755	182JM	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.					
89.50	87.50	89.50	87.50	84.00	79.50	68.50
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
8.98	225	175	345	1.1	3.0	25.60
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	
K	0.404	17.00	74.00	54	38	52.0

#### 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 / T3C

#### Additional Certifications

Other Certification
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#### Additional Information

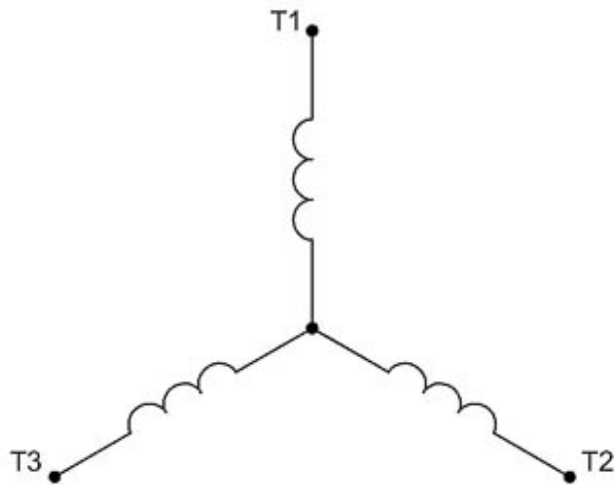
Bearings		Approx. Weight
DE	NDE	lbs
6307ZZ	6306ZZ	99

**Nameplate Drawing**

# Optim JM

TYPE	AEHH8N JM	CAT. NO.	CJM00345		
OUTPUT	3 HP 2.24 kW	FRAME	182JM	TEFC	
R.P.M.	1755	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	3.0	CODE	K	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 89.50		MIN. EFF. 87.50	
BEARINGS	6307ZZ / 6306ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 99 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

**Connection Diagram**

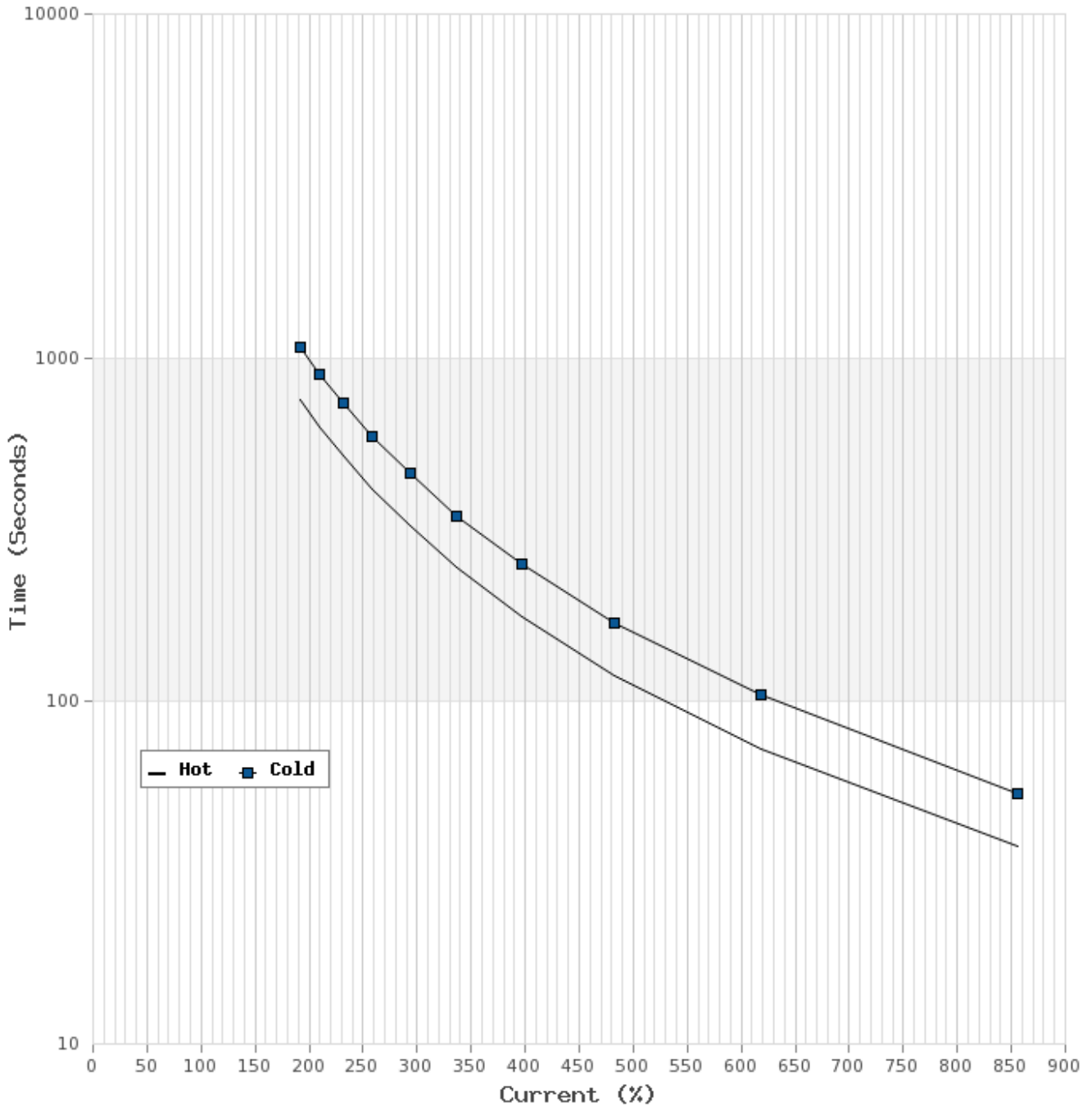


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD\_3Y

**Thermal Limit Curves**

Motor Type: AEHH8N_JM		Catalogue No: CJM00345		Family: Optim JM	
HP	3	Safe Stall Time		Full Load A	3.0 A
Voltage	575V 60Hz	Hot	38 s	% Inrush	856 %
RPM	1800	Cold	54 s	Locked Rotor A	25.60 A



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

Motor Type: AEHH8N_JM		Catalogue No: CJM00345		Family: Optim JM	
HP	3	Full Load T	8.98 lb-ft	Full Load A	3.0 A
Voltage	575V 60Hz	Locked Rotor T	225 %	Locked Rotor A	25.6 A
RPM	1800	Pull Up T	175 %	Break Down T	345 %

