


Technical Documentation

# **CJM0404**

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

Date: April 14, 2021

	
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### Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM0404
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#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
40	4	1770	324JM	230 / 460	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.					
94.10	93.00	94.50	94.50	86.00	84.50	78.50
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
118.70	205	170	220	21.2 / 10.6	92.6 / 46.3	580.00 / 290.00
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	
G	8.624	189.00	375.00	25	18	74.0

#### 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
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#### Additional Information

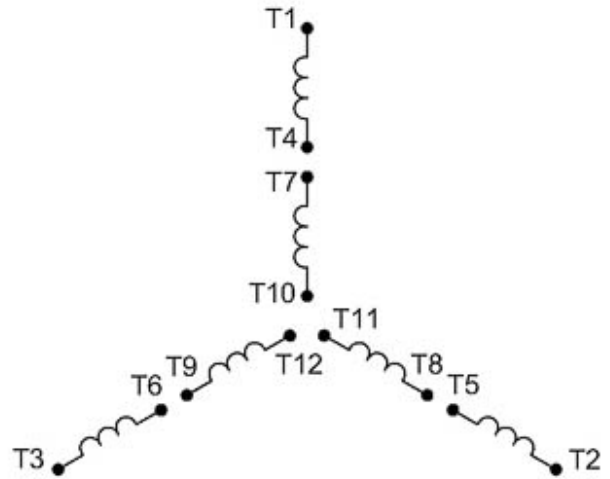
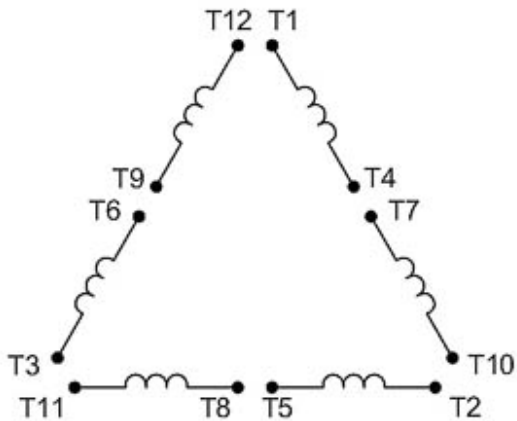
Bearings		Approx. Weight
DE	NDE	lbs
6312	6212	658

**Nameplate Drawing**

# Optim JM

TYPE	AEHH8N_JM	CAT. NO.	CJM0404		
OUTPUT	40 HP 29.84 kW	FRAME	324JM	TEFC	
R.P.M.	1770	POLE	4	INS.	F
VOLTS	230 / 460	PHASE	3	Hz	60
AMPS	92.6 / 46.3	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 94.10		MIN. EFF. 93.00	
BEARINGS	6312 / 6212			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 658 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

**Connection Diagram**



12 LEAD		DUAL VOLTAGE			WYE/DELTA	
VOLTAGE	CONNECTION	L1	L2	L3	JOIN	
HIGH	START	WYE	1	2	3	4&7,5&8,6&9 10&11&12
	RUN	DELTA	1,12	2,10	3,11	4&7,5&8,6&9
LOW	START	2 WYE	1,7	2,8	3,9	4&5&6 10&11&12
	RUN	2 DELTA	1,6,7 12	2,4,8 10	3,5,9 11	

WD\_12YD