Technical Documentation

CJM0502

Optim JM | AEHH8N_JM

Date: April 14, 2021

TECO Westinghouse
MOTORS (CANADA) INC.

Date: April 14, 2021

Technical Data Sheet

Motor Type: AEHH8N_JM	Catalogue No: CJM0502

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
50	2	3550	326JM	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	91.00	90.00	86.50

Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
73.95	150	130	240	20.4 / 10.2	109.0 / 54.7	726.00 / 363.00

NEMA KVA Code	Inertia (WR^2)			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor ($lb\text{-}ft^2$)	NEMA Load ($lb\text{-}ft^2$)	Max. Allowable ($lb\text{-}ft^2$)	Cold	Hot	
G	4.488	49.00	83.00	17	12	78.0

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-75Hz	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 / T3

Additional Certifications

Other Certification

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6312C3	6212C3	708

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Nameplate Drawing

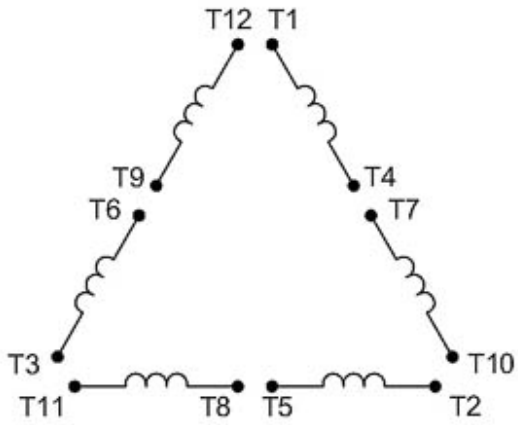
Optim JM

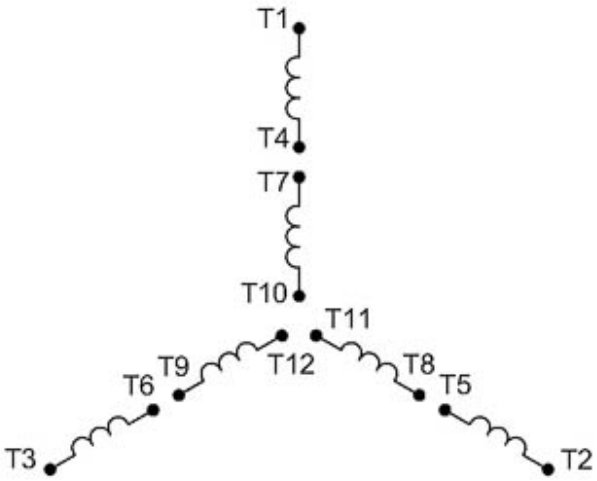
TYPE	AEHH8N_JM	CAT. NO.	CJM0502		
OUTPUT	50 HP 37.30 kW	FRAME	326JM	TEFC	
R.P.M.	3550	POLE	2	INS.	F
VOLTS	230 / 460	PHASE	3	Hz	60
AMPS	109.0 / 54.7	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 94.10		MIN. EFF. 93.00	
BEARINGS	6312C3 / 6212C3			RATING Cont.	

SER. NO.	TBD	DESIGN	B	WT. 708 LBS

PWM VFD DUTY	VT	CT	CP	S.F.
	3-60Hz	6-60Hz	60-75Hz	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