Technical Documentation

RD0206

Rolled Steel ODP | ASGH

Date: December 1, 2016

TECO Westinghouse MOTORS (CANADA) INC.	
	Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RD0206	ASGH	20	6	15	Continuous	230 / 460 V	60	1200

ASGH-SMP-5

Frame Size	Mounting					A	B	C	CD	D
	E	2F	2F2	H	BA					
286T	11	11		0.53	4.75	12.76	12.76	25.38		7

G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
0.24	1.65			0.35	14.28	12.4	2.36	0.5	0.5	3.28	1.591

Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
2.05	10.43	8.27	4.2								

Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions
N-W	U	V	DE	NDE						
4.62	1.875	4.5	6311ZZC3	6211ZZC3	364	64	F	1.15	Direct Coupling / Belt Drive	Inches

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Technical Data Sheet

Motor Type: ASGH	Catalogue No: RD0206

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
20	6	1175	286T	230 / 460	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
ODP	F	1.15	Continuous	B	-40 to 40 °C	<3300 ft

Typical Performance

Efficiency (%)				Power Factor (%)		
Full Load		3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
Nom.	Min.					
92.4	91.0	94.0	93.5	81.5	77.5	67.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
89.37	225	175	225	19.0 / 9.5	49.7 / 24.7	290 / 15
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	8.309	262	473	24	17	64

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-120Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6311ZZC3	6211ZZC3	364

Hazardous Locations Information

N/A	
Temp Code (Sinewave / VFD)	/

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

TECO Westinghouse MOTORS (CANADA) INC.	
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Thermal Limit Curves

Motor Type: ASGH		Catalogue No: RD0206		Family: Rolled Steel ODP	
HP	20	Safe Stall Time		Full Load A	49.7 / 24.7 A
Voltage	230 / 460V 60Hz	Hot	17 s	Locked Rotor A	583 / 61 %
RPM	1200	Cold	24 s	Locked Rotor A	290.0 / 15 A

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T-N and I-N Curves

Motor Type: ASGH		Catalogue No: RD0206		Family: Rolled Steel ODP	
HP	20	Full Load T	89.37 lb-ft	Full Load A	49.7 / 24.7 A
Voltage	230 / 460V 60Hz	Locked Rotor T	225 %	Locked Rotor A	290.0 / 15.0 A
RPM	1200	Pull Up T	175 %	Break Down T	225 %