Technical Documentation

APH0254D

Advantage Plus IEEE Ready | AEHH8R

Date: August 10, 2020

TECO Westinghouse MOTORS (CANADA) INC.	
	Date: August 10, 2020

Technical Data Sheet

Motor Type: AEHH8R	Catalogue No: APH0254D

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
25	4	1765	284TD	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	<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.					
93.6	92.4	93.6	93.6	86.0	83.0	77.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
74.37	205	165	240	7.1	29.1	183
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	4.586	122.00	255.00	28	20	68

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-90Hz	≤ 5 kHz	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
Class II, Div 2, Groups F & G

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6311ZC3	6310ZC3	418

TECO Westinghouse MOTORS (CANADA) INC.	
	Date: August 10, 2020

Nameplate Drawing

Advantage Plus IEEE Ready

TYPE	AEHH8R	CAT. NO.	APH0254D		
OUTPUT	25 HP 19 kW	FRAME	284TD	TEFC	
R.P.M.	1765	POLE	4	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	29.1	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.6		MIN. EFF. 92.4	
BEARINGS	6311ZC3 / 6310ZC3			RATING Cont.	

SER. NO.	TBD	DESIGN	B	WT. 418 LBS

PWM VFD DUTY	VT	CT	CP	S.F.
	3-60Hz	6-60Hz	60-90Hz	1.0 Only

Connection Diagram

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

WD_3D

TECO Westinghouse MOTORS (CANADA) INC.	
	Date: August 10, 2020

Thermal Limit Curves

Motor Type: AEHH8R		Catalogue No: APH0254D		Family: Advantage Plus IEEE Ready	
HP	25	Safe Stall Time		Full Load A	29.1 A
Voltage	460V 60Hz	Hot	20 s	% Inrush	629 %
RPM	1800	Cold	28 s	Locked Rotor A	183 A

TECO Westinghouse MOTORS (CANADA) INC.	
	Date: August 10, 2020

T-N and I-N Curves

Motor Type: AEHH8R		Catalogue No: APH0254D		Family: Advantage Plus IEEE Ready	
HP	25	Full Load T	74.37 lb-ft	Full Load A	29.1 A
Voltage	460V 60Hz	Locked Rotor T	205 %	Locked Rotor A	183.0 A
RPM	1800	Pull Up T	165 %	Break Down T	240 %