

SPECIFICATIONS

SULLAIR INDUSTRIAL PRODUCTS

No. : DOC-20073
Rev: 00

LS315-355 Series, 355kW AC/WC - VSD Kilowatt Rated

MODEL	355L	355H	355HH	355XH	
Compressor Performance*					
Full Load Pressure - bar (psig)	7(100)	8(115)	10(145)	12 (175)	
Capacity at Full Load Pressure - m ³ /min (acfm)	65.6(2316.6)	62.6(2210.7)	52.4(1850.5)	46.1(1628.0)	
Power at Full Load Pressure –Shaft kW (BHP)	361 (483.7)	376.1(503.5)	363.9 (488.5)	369.3(495.7)	
Gear Ratio	1.1	1.1	1.1	1.1	
Frequency Range (Hz)	20-77.7	20-75	20-64.1	20-57.7	
Electrical Data (Typical)					
Motor kW	380V 355				
Motor Nominal Efficiency	IP23	95.1%			
	IP55	95.1%			
Nominal rpm	1485				
Frame Size	IP23	Y315-4			
	IP55	Y2-355-4			
Service Factor	1.15				
Nameplate Amps – FLA/SFA	IP23	630/725			
	IP55	645/742			
Locked Rotor Amps - Max.	IP23	(6~7)x FLA			
	IP55	(6~7)x FLA			
Starter Type	IP23	VSD			
	IP55	VSD			
Cooling Data					
Fluid Flow – gpm(L/min)	111.5(422)	118.8(450)			
Heat Rejection – Fluid Clr.BTU/min(kW)	17143(301.4)	18271(321.2)			
Heat Rejection – Aft.Clr.BTU/min(kW)	2664(46.8)	2531(44.5)			
Air/Fluid Receiver					
Fluid Fill Capacity - Liter (U.S. Gal.)	208(55)	208(55)	208(55)	208(55)	
Volume –Liter (U.S. Gal.)	620(164)	620(164)	620(164)	620(164)	
Rated Pressure –Bar(psig)	14.5(210.3)	14.5(210.3)	14.5(210.3)	14.5(210.3)	
Dimensions & Weights w/Enclosure Water cooled series					
Length - mm (inches)	380V	4200(165.4)	4200(165.4)	4200(165.4)	4200(165.4)
	6kV/10kV IP23	4200(165.4)	4200(165.4)	4200(165.4)	4200(165.4)
	10kV IP55	4400(173.2)	4400(173.2)	4400(173.2)	4400(173.2)
Width - mm (inches)	380V	2200(86.6)	2200(86.6)	2200(86.6)	2200(86.6)
	6kV/10kV IP23	2200(86.6)	2200(86.6)	2200(86.6)	2200(86.6)
	10kV IP55	2200(86.6)	2200(86.6)	2200(86.6)	2200(86.6)
Height - mm (inches)	380V	2370(93.3)	2370(93.3)	2370(93.3)	2370(93.3)
	6kV/10kV IP23	2370(93.3)	2370(93.3)	2370(93.3)	2370(93.3)
	10kV IP55	2370(93.3)	2370(93.3)	2370(93.3)	2370(93.3)
Weight - kg (lbs.)	380V,IP23	8000(17600)	8000(17600)	8000(17600)	8000(17600)
	6kV/10kV/380V,IP55	9500(20900)	9500(20900)	9500(20900)	9500(20900)
Discharge Connection	Rc4	Rc4	Rc4	Rc4	
Moisture Drain Connection	G1/2	G1/2	G1/2	G1/2	



SPECIFICATIONS

LS315-355 Series, 355kW AC/WC—VSD Kilowatt Rated

MODEL		355L	355H	355HH	355XH
Dimensions & Weights w/Enclosure Air cooled					
Length - mm (inches)	380V	4200(165.4)	4200(165.4)	4200(165.4)	4200(165.4)
	6kV/10kV IP23	4200(165.4)	4200(165.4)	4200(165.4)	4200(165.4)
	10kV IP55	4400(173.2)	4400(173.2)	4400(173.2)	4400(173.2)
Width - mm (inches)	380V	2200(86.6)	2200(86.6)	2200(86.6)	2200(86.6)
	6kV/10kV IP23	2200(86.6)	2200(86.6)	2200(86.6)	2200(86.6)
	10kV IP55	2200(86.6)	2200(86.6)	2200(86.6)	2200(86.6)
Height - mm (inches)	380V	2600(102.4)	2600(102.4)	2600(102.4)	2600(102.4)
	6kV/10kV IP23	2600(102.4)	2600(102.4)	2600(102.4)	2600(102.4)
	10kV IP55	2600(102.4)	2600(102.4)	2600(102.4)	2600(102.4)
Weight - kg (lbs.)	380V,IP23	7800(17160)	7800(17160)	7800(17160)	7800(17160)
	6kV/10kV/380V,IP55	9300(20460)	9300(20460)	9300(20460)	9300(20460)
Discharge Connection		Rc4	Rc4	Rc4	Rc4
Moisture Drain Connection		G1/2	G1/2	G1/2	G1/2
dBa Ratings at 1 Meter (Typical)					
Water – cooled w/ enclosure		83 ± 2	83 ± 2	83 ± 2	83 ± 2
Air – cooled w/enclosure		85 ± 2	85 ± 2	85 ± 2	85 ± 2
Water-cooled Series Flow (w/after-cooler)					
Flow at 21 °C (70°F) Water in -L/min. (gpm)		400(105.7)	400(105.7)	400(105.7)	400(105.7)
Recommend Temperature- °C (°F)		21~27(70~80)	21~27(70~80)	21~27(70~80)	21~27(70~80)
Max Temperature- °C (°F)		40(104)	40(104)	40(104)	40(104)
Pipe connection - In/Out		G2-1/2 / G2-1/2	G2-1/2 / G2-1/2	G2-1/2 / G2-1/2	G2-1/2 / G2-1/2
Max./Min. Water Pressure - bar (psig)		5(73)/2(29)	5(73)/2(29)	5(73)/2(29)	5(73)/2(29)
Δt between inlet and outlet- °C (°F)		15(27)	15(37)	15(27)	15(27)
Cooling Air Flows					
Air Flow Water-cooled Fan w/encl. - m ³ /min (cfm)		96.7(3413.8)	96.7(3413.8)	96.7(3413.8)	96.7(3413.8)
Water-cooled Vent Fan - hp (hp rated kW)		0.5(0.37)	0.5(0.37)	0.5(0.37)	0.5(0.37)
Air Flow Air-cooled Fan - m ³ /min (cfm)		516.8(18246)	516.8(18246)	516.8(18246)	516.8(18246)
Air-cooled Fan Motor - hp (hp rated kW)		10(7.5)	10(7.5)	10(7.5)	10(7.5)
Filter Rating					
Inlet Air		99.5% Eff.Per Q/3D5083-90			
Main Lubricant Flow		Beta 3=2,Beta 23=75 Per ISO 4572			

*Capacity per GB3853 (Annex C to ISO 1217)

NOTE: Data subject to change without notice.