

SIJIL PERAKUAN PENDAFTARAN PEMBEKAL BAGI PRODUK SISTEM PEMBETUNGAN

PEMBEKAL : AMATECH SDN BHD
PRODUK : SLUDGE TREATMENT – SLUDGE TRANSFER
JENAMA : SHINMAYWA

SPAN/BPI/2987 - 2019

1) AC Induction Motor Specification

Criteria	Specification
Manufacturer	ShinMaywa Industries, Ltd.
Standards of conformity	JIS B 8301 / JIS B 8325
Efficiency class	N/A
Speed	1500 RPM
Voltage	415 V
Frequency	50 HZ
Phase	3 PH
IP Protection	IP68
Insulation class	Class F
Rated efficiency	APPROX. 85%
Rated service factor	APPROX. 91%
Type of motor	DRY TYPE SUBM. INDUCTION MOTOR
Type of frame	BUILT-IN TYPE
Type of bearing	BALL BEARING
Design life of bearing	UPPER: 20,000H OR 4 YEARS LOWER: 10,000H OR 4 YEARS
Type of induction	DRY/AIR FILLED SUBM. TYPE
Type of cooling	WATER COOLED
Type of starter	D.O.L(7.5kW or less) Star-Delta(11kW or above)

Supplier to attach Certificate of Conformity by 3rd party from the manufacturer of the motor.

2) Material Specification

Main Components	Material	Coating thickness (if applicable)	Characteristic	Standards of conformity
Shaft	SUS420J2	N/A	-	JIS G 4303
Mechanical seal	SiC/SiC	N/A	-	JIS R 2011
Bearing	Bearing Steel	N/A	Type	JIS B 1521
			Design life (L _x)	JIS B 1518
Impeller	*FC200	50µm	-	*JIS G 5501
	*FC250(CN150 5.5-15kW)			*JIS G 5501
	*FCD500(CN150 22KW)			*JIS G 5502
Pump casing	*FC200	50µm	-	*JIS G 5501
	*FC250(CN150)			*JIS G 5501
Suction cover	FC200	50µm	-	JIS G 5501
Fastener	SUS304	N/A	Size	JIS B 0205



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3) Performance Specification (at best efficiency point (BEP))

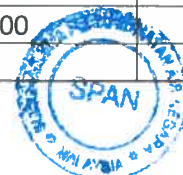
Standards of conformity:

Model	Type of impeller	Power	Speed	Flow	Head	Efficiency	Energy usage	Thermal sensor	Leakage detector (Optional)
		(kW)	(rpm)	(m ³ /hr)	(m)	%	(m ³ /kW.hr)	(Yes/No)	(Yes/No)
CVM80(#5)	VORTEX	1.5	1450	12	6.5	35	8	YES	YES
CVM80(#7)	VORTEX	1.5	1450	25.2	4.7	35	16.8	YES	YES
CVM80(#5)	VORTEX	2.2	1450	15.6	7.2	30.5	7.09	YES	YES
CVM80(#7)	VORTEX	2.2	1450	27	5.9	34	12.27	YES	YES
CVM80(#1)	VORTEX	3.7	1450	25.2	11.0	40	6.81	YES	YES
CVM80(#3)	VORTEX	3.7	1450	39.6	9.2	41	10.7	YES	YES
CVM80(#1)	VORTEX	5.5	1450	33.6	12.4	44	6.11	YES	YES
CVM80(#3)	VORTEX	5.5	1450	50.4	11.0	43	9.16	YES	YES
CVM80(#1)	VORTEX	7.5	1450	28.2	16.4	41	3.76	YES	YES
CVM80(#3)	VORTEX	7.5	1450	56.4	14.0	46	7.52	YES	YES
CVM100(#5)	VORTEX	3.7	1450	24	9.3	32	6.49	YES	YES
CVM100(#7)	VORTEX	3.7	1450	46.8	6.7	36	12.65	YES	YES
CVM100(#5)	VORTEX	5.5	1450	37.2	10.8	41	6.76	YES	YES
CVM100(#7)	VORTEX	5.5	1450	61.2	8.9	43	11.13	YES	YES
CVM100(#5)	VORTEX	7.5	1450	31.2	14.6	40	4.16	YES	YES
CVM100(#7)	VORTEX	7.5	1450	57.6	12.0	45	7.68	YES	YES
CVM150(#7)	VORTEX	5.5	1450	30.6	7.6	23	5.56	YES	YES
CVM150(#9)	VORTEX	5.5	1450	48	6.5	24	8.73	YES	YES
CVM150(#9)	VORTEX	7.5	1450	55.2	9.4	30	7.36	YES	YES
CVM150(#11)	VORTEX	7.5	1450	79.2	7.6	26	10.56	YES	YES

4) Dimensional Specification

Standards of conformity:

Model	Throughlet opening (Soft Solid)	Discharge opening	Suction opening
	Diameter (mm)	Diameter (mm)	Diameter (mm)
CVM80(#5)	80	80 OR 100	80
CVM80(#7)	80	80 OR 100	80
CVM80(#5)	80	80 OR 100	80
CVM80(#7)	80	80 OR 100	80
CVM80(#1)	80	80 OR 100	80
CVM80(#3)	80	80 OR 100	80
CVM80(#1)	80	80 OR 100	80
CVM80(#3)	80	80 OR 100	80
CVM80(#1)	80	80 OR 100	80
CVM80(#3)	80	80 OR 100	80
CVM100(#5)	100	100	100



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CVM100(#7)	100	100	100
CVM100(#5)	100	100	100
CVM100(#7)	100	100	100
CVM100(#5)	100	100	100
CVM100(#7)	100	100	100
CVM150(#7)	125	125	150
CVM150(#9)	125	125	150
CVM150(#9)	125	125	150
CVM150(#11)	125	125	150



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Mechanical seal	SiC/SiC	N/A	-	JIS R 2011
Bearing	Bearing Steel	N/A	Type	JIS B 1521
			Design life (L _x)	JIS B 1518
Impeller	*FC200 *FC250(CN150 5.5-15kW) *FCD500(CN150 22KW)	50µm	-	*JIS G 5501 *JIS G 5501 *JIS G 5502
Pump casing	*FC200 *FC250(CN150)	50µm	-	*JIS G 5501 *JIS G 5501
Suction cover	FC200	50µm	-	JIS G 5501
Fastener	SUS304	N/A	Size	JIS B 0205



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3) Performance Specification (at best efficiency point (BEP))

Standards of conformity:

Model	Type of impeller	Power	Speed	Flow	Head	Efficiency	Energy usage	Thermal sensor	Leakage detector (Optional)
		(kW)	(rpm)	(m ³ /hr)	(m)	%	(m ³ /kW.hr)	(Yes/No)	(Yes/No)
CNL651	S/OPEN	1.5	1500	36	7.4	54.5	24	YES	YES
CN80	S/OPEN	2.2	1500	48	8.4	55.0	21.8	YES	YES
CN80[#1]	S/OPEN	3.7	1500	60	11.8	61.0	16.2	YES	YES
CN80[#3]	S/OPEN	3.7	1500	48	14.4	59.0	12.9	YES	YES
CN100[#1]	S/OPEN	5.5	1500	66	13.8	59.0	12.0	YES	YES
CN100[#3]	S/OPEN	5.5	1500	78	14.6	60.5	14.18	YES	YES
CN100[#1]	S/OPEN	7.5	1500	84	15.2	60.0	11.2	YES	YES
CN100[#3]	S/OPEN	7.5	1500	84	18.4	62.0	11.2	YES	YES
CNH100	C/TYPE	11	1500	102	20.8	54.0	9.27	YES	YES
CNH100	C/TYPE	15	1500	114	26.0	58.0	7.6	YES	YES
CNH100	C/TYPE	22	1500	138	30.0	56.0	6.27	YES	YES
CN150	C/TYPE	5.5	1500	120	10.0	60.0	21.8	YES	YES
CN150	C/TYPE	7.5	1500	148.8	12.0	65.0	19.84	YES	YES
CN150	C/TYPE	11	1500	152.4	16.0	62.0	13.85	YES	YES
CN150	C/TYPE	15	1500	172.2	19.0	63.0	11.48	YES	YES
CN150	C/TYPE	22	1500	216	22.0	60.0	9.82	YES	YES

4) Dimensional Specification

Standards of conformity:

Model	Throughlet opening (Soft Solid)	Discharge opening	Suction opening
	Diameter (mm)	Diameter (mm)	Diameter (mm)
CNL651(1.5kW)	50	80	65
CN80(2.2kW)	54	80 or 100	80
CN80(3.7kW,#1)	53	80 or 100	80
CN80(3.7kW,#3)	53	80 or 100	80
CN100(5.5kW,#1)	60	80 or 100	100
CN100(5.5kW,#3)	54	80 or 100	100
CN100(7.5kW,#1)	60	80 or 100	100
CN100(7.5kW,#3)	60	80 or 100	100
CNH100(11kW)	54	100	100
CNH100(15kW)	54	100	100
CNH100(22kW)	55	100	100
CN150(5.5kW)	70	150	150
CN150(7.5kW)	75	150	150
CN150(11kW)	64	150	150
CN150(15kW)	70	150	150
CN150(22kW)	76	150	150

