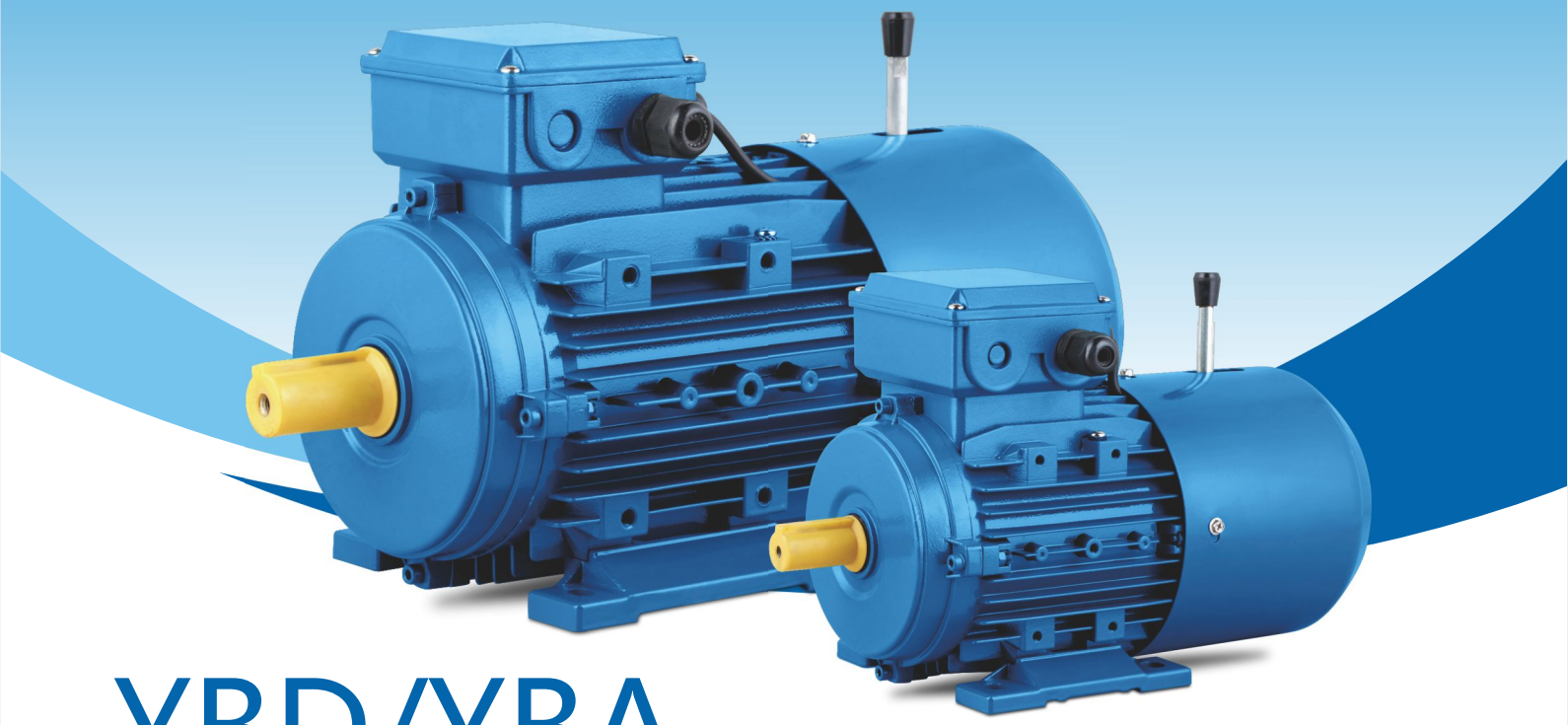
PT RODA ROLLEN INDONESIA



YBD/YBA

Series Asynchronous Three-phase Brake Motors

The brake-motors of the YBD/YBA series result from coupling an asynchronous three-phase motor and an electromagnetic D.C/A.C Brake unit. Due to the advantages of their reliability and operating safety, as well their quick braking(The braking time =55-180milliseconds).

FEATURES

- Frame Size: H63~H160
- Rated power range: 0.09KW-18.5KW
- House Material: Aluminium
- Standard Color: Gentian Blue
- Standard Installation: IEC60034-7
- Standard Protection Class: IP54/IP55
- Insulation Class: Class B/F

WORKING ENVIRONMENT

- Cooling Method: IC411
- Ambient Temperature: -15~40℃
- Altitude: Under 1000 meters

PT RODA ROLLEN INDONESIA

SALES&SHOWROOM

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Technical Data (2 Poles)

Model	Power	Full Load												T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{min}/T_n (Times)	I_{st}/I_n (Times)	Noise
		Current(A)			Current(A)			Current(A)			Speed	Power factor	Eff					
	kW	220V	380V	660V	230V	400V	690V	240V	415V	720V	r.p.m	Cosφ	%					dB(A)
561-2	0.09	0.62	0.36	0.21	0.59	0.34	0.20	0.57	0.33	0.19	2710	0.72	53.0	2.2	2.3	2.0	4.0	58
562-2	0.12	0.72	0.42	0.24	0.69	0.39	0.23	0.66	0.38	0.22	2700	0.72	61.0	2.2	2.3	2.0	4.0	58
563-2	0.18	1.00	0.58	0.33	0.96	0.55	0.32	0.92	0.53	0.31	2710	0.75	63.0	2.2	2.4	1.6	6.0	61
631-2	0.18	1.00	0.58	0.33	0.96	0.55	0.32	0.92	0.53	0.31	2710	0.75	63.0	2.2	2.4	1.6	6.0	61
632-2	0.25	1.29	0.75	0.43	1.24	0.71	0.41	1.19	0.69	0.40	2710	0.78	65.0	2.2	2.4	1.6	6.0	61
633-2	0.37	1.92	1.11	0.64	1.83	1.05	0.61	1.76	1.02	0.59	2710	0.78	65.0	2.2	2.4	1.6	6.0	62
711-2	0.37	1.76	1.02	0.59	1.68	0.97	0.56	1.61	0.93	0.54	2730	0.79	70.0	2.2	2.4	1.6	6.0	64
712-2	0.55	2.57	1.49	0.86	2.46	1.42	0.82	2.36	1.36	0.79	2760	0.79	71.0	2.2	2.4	1.6	6.0	64
713-2	0.75	3.29	1.90	1.10	3.15	1.81	1.05	3.02	1.74	1.01	2730	0.83	72.1	2.2	2.4	1.5	6.0	65
801-2	0.75	3.29	1.90	1.10	3.15	1.81	1.05	3.02	1.74	1.01	2770	0.83	72.1	2.2	2.4	1.5	6.0	67
802-2	1.1	4.58	2.65	1.53	4.38	2.52	1.46	4.20	2.43	1.40	2770	0.84	75.0	2.2	2.4	1.5	6.0	67
803-2	1.5	6.07	3.51	2.02	5.81	3.34	1.94	5.56	3.22	1.85	2800	0.84	77.2	2.2	2.4	1.5	6.0	70
90S-2	1.5	6.07	3.51	2.02	5.81	3.34	1.94	5.56	3.22	1.85	2840	0.84	77.2	2.2	2.4	1.5	6.0	72
90L1-2	2.2	8.52	4.93	2.84	8.15	4.69	2.72	7.81	4.52	2.60	2840	0.85	79.7	2.2	2.4	1.4	6.0	72
90L2-2	3.0	11.1	6.43	3.70	10.6	6.11	3.54	10.2	5.89	3.39	2840	0.87	81.5	2.2	2.4	1.4	6.0	74
100L1-2	3.0	11.1	6.43	3.70	10.6	6.11	3.54	10.2	5.89	3.39	2840	0.87	81.5	2.2	2.3	1.4	7.0	76
100L2-2	4.0	14.4	8.31	4.79	13.7	7.90	4.58	13.2	7.61	4.39	2850	0.88	83.1	2.2	2.3	1.4	7.5	77
112M-2	4.0	14.4	8.31	4.79	13.7	7.90	4.58	13.2	7.61	4.39	2880	0.88	83.1	2.2	2.3	1.4	7.5	77
112L-2	5.5	19.4	11.2	6.46	18.5	10.7	6.17	17.8	10.3	5.92	2880	0.88	84.7	2.2	2.3	1.2	7.5	78
132S1-2	5.5	19.4	11.2	6.46	18.5	10.7	6.17	17.8	10.3	5.92	2900	0.88	84.7	2.0	2.2	1.2	7.5	80
132S2-2	7.5	26.0	15.1	8.67	24.9	14.3	8.29	23.8	13.8	7.95	2920	0.88	86.0	2.0	2.2	1.2	7.5	80
132M1-2	9.2	31.6	18.3	10.5	30.2	17.4	10.1	29.0	16.8	9.66	2930	0.88	86.8	2.0	2.2	1.2	7.5	81
132M2-2	11	37.0	21.4	12.3	35.4	20.4	11.8	33.9	19.6	11.3	2930	0.89	87.6	2.0	2.2	1.2	7.5	83
160M1-2	11	37.0	21.4	12.3	35.4	20.4	11.8	33.9	19.6	11.3	2940	0.89	87.6	2.0	2.2	1.2	7.5	86
160M2-2	15	49.9	28.9	16.6	47.7	27.4	15.9	45.7	26.4	15.2	2940	0.89	88.7	2.0	2.2	1.2	7.5	86
160L-2	18.5	60.4	35.0	20.1	57.8	33.2	19.3	55.4	32.0	18.5	2940	0.90	89.3	2.0	2.2	1.1	7.5	86

Technical Data (4 Poles)

Model	Power	Full Load									Speed	Power factor	Eff	T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{min}/T_n (Times)	I_{st}/I_n (Times)	Noise
		Current(A)			Current(A)			Current(A)										
	kW	220V	380V	660V	230V	400V	690V	240V	415V	720V	r.p.m	Cosφ	%					dB(A)
561-4	0.06	0.56	0.33	0.19	0.54	0.31	0.18	0.52	0.30	0.17	1360	0.56	50.0	2.3	2.4	2.0	4.0	50
562-4	0.09	0.77	0.45	0.26	0.74	0.42	0.25	0.71	0.41	0.24	1360	0.59	52.0	2.3	2.4	2.0	4.0	50
631-4	0.12	0.95	0.55	0.32	0.91	0.52	0.30	0.87	0.50	0.29	1360	0.64	52.0	2.2	2.4	2.0	4.0	52
632-4	0.18	1.28	0.74	0.43	1.22	0.70	0.41	1.17	0.68	0.39	1310	0.65	57.0	2.2	2.4	2.0	4.0	52
633-4	0.25	1.66	0.96	0.55	1.58	0.91	0.53	1.52	0.88	0.51	1340	0.66	60.0	2.2	2.2	2.0	4.0	54
711-4	0.25	1.52	0.88	0.51	1.45	0.84	0.48	1.39	0.81	0.46	1350	0.72	60.0	2.2	2.4	1.7	6.0	55
712-4	0.37	2.02	1.17	0.67	1.93	1.11	0.64	1.85	1.07	0.62	1370	0.74	65.0	2.2	2.4	1.7	6.0	55
713-4	0.55	2.92	1.69	0.97	2.79	1.60	0.93	2.67	1.55	0.89	1380	0.75	66.0	2.2	2.4	1.7	6.0	57
801-4	0.55	2.87	1.66	0.96	2.75	1.58	0.92	2.63	1.52	0.88	1370	0.75	67.0	2.2	2.4	1.7	6.0	58
802-4	0.75	3.59	2.08	1.20	3.44	1.98	1.15	3.29	1.90	1.10	1380	0.76	72.1	2.2	2.4	1.6	6.0	58
803-4	1.1	5.00	2.89	1.67	4.78	2.75	1.59	4.58	2.65	1.53	1390	0.77	75.0	2.2	2.4	1.6	6.0	60
90S-4	1.1	5.00	2.89	1.67	4.78	2.75	1.59	4.58	2.65	1.53	1400	0.77	75.0	2.2	2.4	1.6	6.0	61
90L1-4	1.5	6.45	3.74	2.15	6.17	3.55	2.06	5.92	3.42	1.97	1400	0.79	77.2	2.2	2.4	1.6	6.0	61
90L2-4	2.2	8.94	5.18	2.98	8.55	4.92	2.85	8.20	4.74	2.73	1400	0.81	79.7	2.2	2.4	1.5	7.0	63
100L1-4	2.2	8.94	5.18	2.98	8.55	4.92	2.85	8.20	4.74	2.73	1420	0.81	79.7	2.2	2.3	1.5	7.0	64
100L2-4	3.0	11.8	6.82	3.93	11.3	6.48	3.76	10.8	6.25	3.60	1420	0.82	81.5	2.2	2.3	1.5	7.0	64
100L3-4	4.0	15.4	8.92	5.14	14.7	8.47	4.91	14.1	8.17	4.71	1430	0.82	83.1	2.2	2.3	1.5	7.0	65
112M-4	4.0	15.4	8.92	5.14	14.7	8.47	4.91	14.1	8.17	4.71	1430	0.82	83.1	2.2	2.2	1.5	7.0	65
112L-4	5.5	20.5	11.9	6.84	19.6	11.3	6.55	18.8	10.9	6.27	1440	0.83	84.7	2.2	2.2	1.4	7.0	68
132S-4	5.5	20.5	11.9	6.84	19.6	11.3	6.55	18.8	10.9	6.27	1450	0.83	84.7	2.2	2.2	1.4	7.0	71
132M-4	7.5	27.2	15.8	9.08	26.1	15.0	8.69	25.0	14.4	8.33	1450	0.84	86.0	2.2	2.2	1.4	7.0	71
132L1-4	9.2	33.1	19.2	11.0	31.7	18.2	10.6	30.4	17.6	10.1	1460	0.84	86.8	2.2	2.2	1.4	7.5	74
132L2-4	11	39.2	22.7	13.1	37.5	21.6	12.5	36.0	20.8	12.0	1460	0.84	87.6	2.2	2.2	1.4	7.5	74
160M-4	11	39.2	22.7	13.1	37.5	21.6	12.5	36.0	20.8	12.0	1460	0.84	87.6	2.2	2.2	1.4	7.0	75
160L1-4	15	52.2	30.2	17.4	49.9	28.7	16.6	47.9	27.7	16.0	1460	0.85	88.7	2.2	2.2	1.4	7.5	75
160L2-4	18.5	63.2	36.6	21.1	60.5	34.8	20.2	58.0	33.5	19.3	1460	0.86	89.3	2.2	2.2	1.4	7.5	78

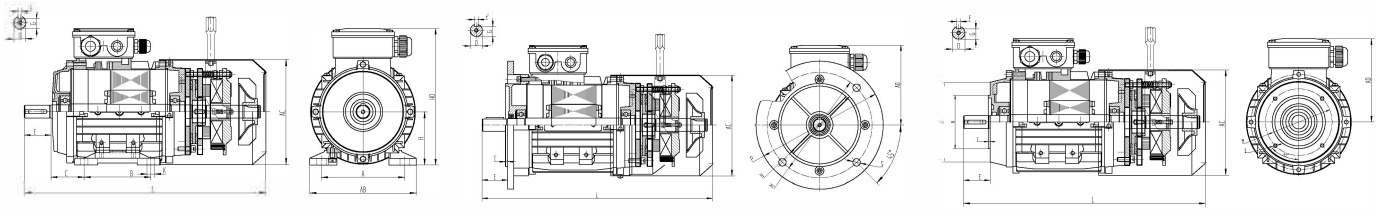
Technical Data (6 Poles)

Model	Power	Full Load												T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{min}/T_n (Times)	I_{st}/I_n (Times)	Noise
		Current(A)			Current(A)			Current(A)			Speed	Power factor	Eff					
	kW	220V	380V	660V	230V	400V	690V	240V	415V	720V	r.p.m	Cosφ	%					dB(A)
631-6	0.09	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	840	0.61	42.0	2.0	2.0	1.5	3.5	50
632-6	0.12	1.13	0.65	0.38	1.08	0.62	0.36	1.03	0.60	0.34	850	0.62	45.0	2.0	2.0	1.5	3.5	50
711-6	0.18	1.28	0.74	0.43	1.22	0.70	0.41	1.17	0.68	0.39	880	0.66	56.0	1.6	1.7	1.5	4.0	52
712-6	0.25	1.66	0.96	0.55	1.59	0.91	0.53	1.52	0.88	0.51	900	0.67	59.0	2.1	2.2	1.5	4.0	52
713-6	0.37	2.31	1.34	0.77	2.21	1.27	0.74	2.11	1.22	0.70	890	0.69	61.0	2.0	2.1	1.5	4.0	54
801-6	0.37	2.24	1.30	0.75	2.14	1.23	0.71	2.05	1.19	0.68	900	0.70	62.0	1.9	1.9	1.5	4.0	56
802-6	0.55	2.99	1.73	1.00	2.86	1.65	0.95	2.74	1.59	0.91	900	0.72	67.0	2.0	2.3	1.5	4.0	56
803-6	0.75	3.91	2.26	1.30	3.74	2.15	1.25	3.58	2.07	1.19	900	0.72	70.0	2.0	2.3	1.5	4.0	58
90S-6	0.75	3.91	2.26	1.30	3.74	2.15	1.25	3.58	2.07	1.19	920	0.72	70.0	2.2	2.2	1.5	5.5	59
90L1-6	1.1	5.42	3.14	1.81	5.19	2.98	1.73	4.97	2.88	1.66	925	0.73	72.9	2.2	2.2	1.3	5.5	59
90L2-6	1.5	6.98	4.04	2.33	6.68	3.84	2.23	6.40	3.70	2.13	925	0.75	75.2	2.2	2.2	1.3	5.5	60
100L1-6	1.5	6.98	4.04	2.33	6.68	3.84	2.23	6.40	3.70	2.13	945	0.75	75.2	2.2	2.2	1.3	6.0	61
100L2-6	2.2	9.78	5.66	3.26	9.35	5.38	3.12	8.96	5.18	2.99	950	0.76	77.7	2.2	2.2	1.3	6.0	63
112M-6	2.2	9.78	5.66	3.26	9.35	5.38	3.12	8.96	5.18	2.99	955	0.76	77.7	2.2	2.2	1.3	6.0	64
112L-6	3.0	13.0	7.53	4.33	12.4	7.15	4.14	11.9	6.89	3.97	950	0.76	79.7	2.2	2.2	1.3	6.0	64
132S-6	3.0	13.0	7.53	4.33	12.4	7.15	4.14	11.9	6.89	3.97	960	0.76	79.7	2.0	2.0	1.3	6.5	64
132M1-6	4.0	17.0	9.82	5.66	16.2	9.33	5.41	15.6	9.00	5.18	960	0.76	81.4	2.0	2.0	1.3	6.5	68
132M2-6	5.5	22.6	13.1	7.52	21.6	12.4	7.19	20.7	12.0	6.89	960	0.77	83.1	2.0	2.0	1.3	6.5	68
132L-6	7.5	30.2	17.5	10.1	28.9	16.6	9.62	27.7	16.0	9.22	960	0.77	84.7	2.0	2.0	1.3	6.5	68
160M-6	7.5	30.2	17.5	10.1	28.9	16.6	9.62	27.7	16.0	9.22	960	0.77	84.7	2.0	2.2	1.3	6.5	68
160L-6	11	42.8	24.8	14.3	41.0	23.6	13.7	39.3	22.7	13.1	960	0.78	86.4	2.0	2.2	1.2	6.5	73

Motor Model	DC Brake Model	Hole Size	Brake Torque (Nm)	Brake Rated Voltage (W)	Brake Inertia ($Kgcm^2$)	No-Load Brake Starting Times Per Hour	Brake Voltage	Operate Time (Ms)	Brake Time (Ms)
YBD63	SB0206C-2	12	6	22.4W	0.15	1200	DC103V	45	25
YBD71	SB0206C-3	15	6	22.4W	0.15	1200	DC103V	45	25
YBD80	SB0208C-4	20	12	26.6W	6.1	1200	DC103V	57	29
YBD90S	SB0210C-5	20	20	40W	2.0	1200	DC103V	76	35
YBD90L	SB0210C-5	20	20	40W	2.0	1200	DC103V	76	35
YBDI00L	SB0212C-3	25	40	33.6W	4.5	1200	DC103V	115	45
YBD112M	SB0214C-3	30	60	60W	6.3	1200	DC103V	210	50
YBD132S	SB0216C-2	38	110	88.3W	15.0	1200	DC190V	220	71
YBD132M/L	SB0216C-2	38	110	88.3W	15.0	1200	DC190V	220	71
YBD160M	SB0351B-2	32	180	70W	29.0	1200	DC190V	340	65
YBD160L	SB0352B-1	32	200	70W	58.0	1200	DC190V	340	65

Motor Model	AC Brake Model	Hole Size	Brake Torque (Nm)	Brake Rated Power (W)	Brak Inert (Kgcn	No-Load Brake Starting Times Per Hour	Suction vlotage AC	Release voltage AC	Operate Time (Ms)	Brake Time (Ms)
YBA63	SB0707D-2 AC220V/380V	12	4	22.4W	0.15	1200	163V	125V	45	25
YBA71	SB0708D-2 AC220V/380V	15	8	22.4W	0.15	1200	163V	125V	45	25
YBA80	SB0710D-1 AC220V/380V	20	12	26.6W	6.1	1200	188V	150V	57	29
YBA90S	SB0711D-1 AC220V/380V	20	21	40W	2.0	1200	188V	150V	76	35
YBA90L	SB0711D-1 AC220V/380V	20	21	40W	2.0	1200	188V	165V	76	35
YBAI00L	SB0714D-1 AC220V/380V	25	35	33.6W	4.5	1200	186V	165V	115	45
YBA112M	SB0715D-1 AC220V/380V	30	63	60W	6.3	1200	186V	165V	210	50
YBA132S	SB0716D-1 AC220V/380V	38	70	88.3W	15.0	1200	185V	160V	220	71
YBA132M/L	SB0717D-3 AC380V/660V	38	126	88.3W	15.0	1200	185V	160V	220	71
YBA160M	SB0720D-2 AC380V/660V	35	130	70W	29.0	1200	182V	150V	340	65
YBA160L	SB0721D-2 AC380V/660V	35	234	70W	58.0	1200	182V	150V	340	65

YBD & YBA SERIES MOTOR OVERALL & INSTALLATION DIMENSIONS



Frame Size	Installation Size(mm)							Installation Size(mm) IMB15					Installation Size(mm) IMB14					Overall Dimension (mm)							
	A	B	C	D	E	F	G	M	N	P	S	T	M	N	P	S	T	H	K	AB	AC	AD	HD	L(YBD)	L(YBA)
63	100	80	40	11	23	4	8.5	115	95	140	10	3	75	60	90	M5	2.5	63	7	121	123	99	162	264	284
71	112	90	45	14	30	5	11	130	110	160	10	3.5	85	70	105	M6	2.5	71	7	131	140	107	178	302.5	326
80	125	100	50	19	40	6	15.5	165	130	200	12	3.5	100	80	120	M6	3	80	10	160	158	125	205	344	357
90S	140	100	56	24	50	8	20	165	130	200	12	3.5	115	95	140	M8	3	90	10	175	176	131.5	221.5	364	392
90M	140	100/125	56	24	50	8	20	165	130	200	12	3.5	115	95	140	M8	3	90	10	175	176	131.5	221.5	388	416
90L	140	125	56	24	50	8	20	165	130	200	12	3.5	115	95	140	M8	3	90	10	175	176	131.5	221.5	419	447
100	160	140	63	28	60	8	24	215	180	250	15	4	130	110	160	M8	3.5	100	12	198	195	141.5	241.5	456	475
112	190	140	70	28	60	8	24	215	180	250	15	4	130	110	160	M8	3.5	112	12	219	223	168	285	480	520
132S	216	140	89	38	80	10	33	265	230	300	15	4	165	130	200	M10	4	132	12	254	259	186.5	218.5	513	525
132M	216	178	89	38	80	10	33	265	230	300	15	4	165	130	200	M10	4	132	12	254	259	186.5	218.5	577	606
160M	254	210	108	42	110	12	37	300	250	350	19	5	215	180	250	M12	4	160	15	292	313	230	390	720.5	761
160L	254	254	108	42	110	12	37	300	250	350	19	5	215	180	250	M12	4	160	15	292	313	230	390	720.5	770

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