

APM series Aluminum premium motors

Motori elettrici in alluminio

Section **1**
Sezione 1

Clean shape aluminum electric motor to reduce dust accumulation, ideal where hot water wash down is used (without aggressive detergents).

Motore elettrico in alluminio dalla forma pulita la soluzione più economica per evitare l'accumulo di polvere, ideale dove è usata acqua calda per lavaggi

ALUMINUM

IP69k

CE

C **UL** US

IE4



Standard terminal box with cable gland in **radial** position










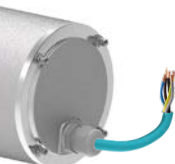






On request direct cable with cable gland in **axial** position

For the complete documentations please visit our website: www.cleangeartech.com

Per la documentazione completa si prega di visitare il nostro sito web: www.cleangeartech.com

How to order Codifica

APM	B	KC	4	J	TE	N	A	
Series Serie	Size Taglia	Power Potenza	Poles Poli	Mounting Montaggio	Tension Tensione	Cooling Raffreddamento	Coating Rivestimento	
APM	B → 63	KC → 0.12	2 4 6	B14	Three-phase <i>Trifase</i>	N TENV (Non ventilato)	N Standard	
	C → 71	KD → 0.18		J → IMB14 Horizontal shaft. <i>Albero orizzontale.</i>	TE 230/400V 50 Hz			
	D → 80	KE → 0.25			TU 230/460V 60 Hz			
	E → 90	KF → 0.37		K → IMV18 Vertical downward shaft. <i>Albero verticale verso il basso.</i>	On request <i>A richiesta</i>			V Painted RAL 7035 <i>Verniciato RAL7035</i>
KG → 0.55	KH → 0.75	TC 332/575V 60 Hz						
KI → 1.1					TD 220/380V 60 Hz			
	KK → 1.5	L → IMV19 Vertical upward shaft. <i>Albero verticale verso l'alto.</i>	See our website for technical data <i>Vedere il nostro sito web per la documentazione tecnica</i>					
	KL → 2.2							
				For more info on mounting position, see page 8-6 <i>Per maggiori informazioni sulla posizione di montaggio, vedere pagina 8-6</i>				

4	K	-	A	6	SA	-	--
Efficiency <i>Efficienza</i>	Protection <i>Protezione</i>	Terminal box <i>Morsettiera</i>	Cable gland position <i>Posizione pressacavo</i>	Cable gland type <i>Tipo di pressacavo</i>	Cable <i>cavo</i>	Thermal protection <i>Protezione termica</i>	Humid rooms options <i>Opzioni ambienti umidi</i>
4 IE4 efficiency <i>(Premium)</i>	K IP69k	C Terminal block 3 + splicing connector 3w <i>Morsettiera 3 + morsetto 3 cavi</i> 	A Axial position <i>Posizione assiale</i> Without the terminal box <i>Senza morsettiera</i> 	N Without cable gland <i>Senza pressacavo</i> 	-N Senza cavo <i>Senza cavo</i> 	- Standard PTO only with terminal box. <i>PTO Standard solo con morsettiera.</i>	-- Standard -S Pre-heater <i>Scaldiglia</i> 
		- Without terminal box <i>Senza Morsettiera</i> 	With the terminal box Con morsettiera 	2 Plastic cable gland <i>Pressacavo in plastica</i> 			
		Always supplied with cable <i>Sempre fornito con cavo</i>	R Radial position <i>Posizione radiale</i> 	6 Plastic cable gland with Anti-condensation valve <i>Pressacavo in plastica con valvola anticondensa</i> 	TA 2.5 m cable supplied with Δ connection <i>Cavo 2.5 m collegamento a Δ</i>		
					SB 5 m cable supplied with Y connection <i>Cavo 5 m collegamento a stella</i>		
					TB 5 m cable supplied with Δ connection <i>Cavo 5 m collegamento a Δ</i>		

	S1 service, F insulation class			Operating characteristics at rated power							Direct starting		Inertia moment	Weight B14	R [Ω] 20°C	Enclosure
	Power	Motor code	Frame	Rated current	Speed	Nominal torque	Efficiency at % load			PF	Torque	Current				
	kW			A 400/460V	rpm	Nm	100%	75%	50%	cos φ	Ms/Mn	Is/In				
230/400V 50Hz rpm 3000	0.18	APM BKD2J TEN	63A	0.45	2890	0.6	70.8	67.5	64.2	0.81	4.1	6.4	0.0005	6.2	29.1	TENV
	0.25	APM BKE2J TEN	63B	0.58	2895	0.84	74.3	72.8	70.5	0.85	4.4	7.8	0.0006	8.8	13.8	
	0.37	APM CKF2J TEN	71A	0.85	2930	1.23	82.5	80.1	77.2	0.75	4.3	8.8	0.0008	10.5	7.9	
	0.55	APM CKG2J TEN	71B	1.24	2910	1.85	82.9	81.4	77.5	0.77	5.4	8.9	0.0010	12.1	6.2	
	0.75	APM DKH2J TEN	80A	1.52	2900	2.45	84.6	83.9	80.8	0.83	6.2	12.5	0.0013	15.2	4.5	
	1.1	APM DKI2J TEN	80B	2.10	2910	3.60	86.4	86.0	84.0	0.86	5.8	12.8	0.0017	19.8	3.3	
	1.5	APM EKK2J TEN	90S	3.00	2930	4.90	86.5	85.5	82.3	0.83	5.2	10.5	0.0054	28.4	1.8	
	2.2	APM EKL2J TEN	90L	4.22	2920	7.2	86.0	85.0	82.0	0.82	4.8	8.5	0.0056	32.5	1.7	
230/460V 60Hz rpm 3600	0.18	APM BKD2J TUN	63A	0.41	3461	0.50	70.9	68.1	64.9	0.78	4.3	6.6	0.0005	6.2	29.1	TENV
	0.25	APM BKE2J TUN	63B	0.53	3503	0.70	71.3	68.2	64.9	0.77	4.6	8.0	0.0006	8.8	13.8	
	0.37	APM CKF2J TUN	71A	0.77	3545	1.00	82.5	80.1	77.2	0.72	4.5	9.0	0.0008	10.5	7.8	
	0.55	APM CKG2J TUN	71B	1.12	3521	1.50	83.0	81.3	77.4	0.74	5.6	9.1	0.0010	12.1	6.2	
	0.75	APM DKH2J TUN	80A	1.38	3509	2.00	84.8	83.6	80.6	0.83	6.4	12.7	0.0013	15.2	4.5	
	1.1	APM DKI2J TUN	80B	1.97	3521	3.00	86.6	86.0	84.2	0.80	6.0	13.0	0.0017	19.8	3.2	
	1.5	APM EKK2J TUN	90S	2.78	3545	4.10	86.6	85.4	82.2	0.74	5.4	10.7	0.0054	28.4	1.7	
	2.2	APM EKL2J TUN	90L	3.82	3520	6.0	88.7	87.8	86.0	0.82	4.8	9.2	0.0108	32.5	1.5	

Nominal values with ±10% tolerance on Voltage Valori nominali con ±10% di tolleranza nel voltaggio

Technical data and performances may change Dati tecnici e prestazioni possono subire variazioni



TENV Totally Enclosed non ventilated
Totalmente chiuso, non ventilato

	S1 service, F insulation class			Operating characteristics at rated power						Direct starting		Inertia moment	Weight B14	R [Ω] 20°C	Enclosure	
	Power	Motor code	Frame	Rated current	Speed	Nominal torque	Efficiency at % load			PF	Torque					Current
	kW			A 400/460V	rpm	Nm	100%	75%	50%	cos φ	Ms/Mn					Is/In
230/400V 50Hz rpm 1500	0.12	APM BKC4J TEN	63A	0.40	1445	0.81	71.6	70.0	63.9	0.64	3.5	6.5	0.0014	7.3	41.8	TENV
	0.18	APM BKD4J TEN	63B	0.48	1445	1.21	75.7	74.1	69.3	0.72	3.8	6.6	0.0016	8.1	30.1	
	0.25	APM CKE4J TEN	71A	0.64	1444	1.66	76.7	74.8	70.1	0.73	3.7	7.2	0.0021	9.8	21.1	
	0.37	APM CKF4J TEN	71B	0.94	1440	2.45	80.7	79.7	75.9	0.71	4.1	7.4	0.0025	12	12.8	
	0.55	APM DKG4J TEN	80A	1.34	1448	3.66	81.6	80.7	77.0	0.73	4.8	8.2	0.0026	14	8.1	
	0.75	APM DKH4J TEN	80B	1.74	1456	4.95	83.6	82.5	79.2	0.74	5.6	8.5	0.0032	16.5	5.7	
	1.1	APM EKI4J TEN	90S	2.50	1475	7.15	87.2	84.4	80.3	0.73	4.8	8.6	0.0095	27.7	2.0	
	1.5	APM EKK4J TEN	90L	3.34	1475	9.75	87.9	87.1	84.3	0.74	4.9	9.8	0.0107	30.8	1.5	
230/460V 60Hz rpm 1800	0.12	APM BKC4J TUN	63A	0.34	1752	0.65	72.6	71.0	64.9	0.64	3.7	6.7	0.0014	7.4	41.8	TENV
	0.18	APM BKD4J TUN	63B	0.41	1750	0.98	76.7	75.1	70.3	0.72	4.0	6.8	0.0016	8.1	30.1	
	0.25	APM CKE4J TUN	71A	0.57	1748	1.36	77.7	75.8	71.1	0.70	3.9	7.4	0.0021	9.8	21.1	
	0.37	APM CKF4J TUN	71B	0.84	1742	2.02	81.6	80.6	76.8	0.67	4.3	7.6	0.0025	12	12.8	
	0.55	APM DKG4J TUN	80A	1.19	1750	3.05	82.6	81.7	78.0	0.70	5.0	8.4	0.0026	14	8.1	
	0.75	APM DKH4J TUN	80B	1.52	1765	4.13	84.1	82.5	79.5	0.71	5.8	8.7	0.0032	15.9	5.7	
	1.1	APM EKI4J TUN	90S	2.24	1780	5.96	88.0	84.1	80.1	0.70	5.0	8.8	0.0095	27.7	2.0	
	1.5	APM EKK4J TUN	90L	2.96	1785	8.13	88.2	87.4	84.4	0.70	5.1	10.0	0.0107	30.8	1.5	

Nominal values with ±10% tolerance on Voltage Valori nominali con ±10% di tolleranza nel voltaggio

Technical data and performances may change Dati tecnici e prestazioni possono subire variazioni



TENV Totally Enclosed non ventilated
Totalmente chiuso, non ventilato

S1 service, F insulation class			Operating characteristics at rated power							Direct starting			Enclosure			
Power	Motor code	Frame	Rated current	Speed	Nominal torque	Efficiency at % load			PF	Torque	Current	Inertia moment		Weight	R [Ω] 20°C	
kW			A 400/460V	rpm	Nm	100%	75%	50%	cos φ	Ms/Mn	Is/In	[kgm ²]		Kg		
230/400V 50Hz rpm 1000	0.18	APM CKD6J TEN	71A	0.55	890	1.95	70.2	67.2	60.1	0.68	2.6	3	0.0021	10.2	36.9	TEN
	0.25	APM CKE6J TEN	71B	0.75	890	2.65	72.2	71.3	66.8	0.65	3.2	3.4	0.0025	12.5	26.1	
	0.37	APM DKF6J TEN	80A	1.10	890	3.98	76.3	76.0	73.2	0.63	1.7	3.4	0.0026	15.2	18.8	
	0.55	APM DKG6J TEN	80B	1.30	900	5.30	78.0	77.7	67.4	0.69	2.4	3.7	0.0032	16.8	13.1	
	0.75	APM EKH6J TEN	90S	1.70	940	7.60	82.5	81.5	78.0	0.77	2.6	5.7	0.0095	29.5	4.9	
	1.1	APM EKI6J TEN	90L	2.40	950	11.10	84.5	83.0	82.0	0.78	2.9	6.1	0.0107	32.5	4.2	
230/460V 60Hz rpm 1200	0.18	APM CKD6J TUN	71A	0.50	1115	1.50	70.1	67.0	60.0	0.61	2.6	3	0.0021	10.2	36.9	TEN
	0.25	APM CKE6J TUN	71B	0.68	1120	2.1	74.0	67.0	61.0	0.61	3.2	3.4	0.0025	12.5	26.1	
	0.37	APM DKF6J TUN	80A	1.03	1125	3.10	76.3	74.4	73.2	0.57	1.7	3.4	0.0026	15.2	18.8	
	0.55	APM DKG6J TUN	80B	1.35	1120	4.70	78.2	77.6	68.4	0.69	2.4	3.7	0.0032	16.8	13.1	
	0.75	APM EKH6J TUN	90S	1.70	1128	6.2	82.3	81.0	78.0	0.69	2.6	5.7	0.0095	29.5	4.9	
	1.1	APM EKI6J TUN	90L	2.20	1140	9.2	84.2	83.0	82.0	0.75	2.9	6.1	0.0107	32.5	4.2	

Nominal values with ±10% tolerance on Voltage Valori nominali con ±10% di tolleranza nel voltaggio

Technical data and performances may change Dati tecnici e prestazioni possono subire variazioni



TENV Totally Enclosed non ventilated
Totalmente chiuso, non ventilato

Mounting arrangements and positions (IEC 60034-7)

Forme costruttive e posizioni di funzionamento (IEC 60034-7)

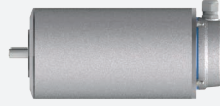
B14

Motors with fixing flange provided with threaded holes.

Motori con flangia di fissaggio a fori filettati

IMB14

Horizontal shaft.
Albero orizzontale.



IMV18

Vertical downward shaft.
Albero verticale in basso.



IMV19

Vertical upward shaft.
Albero verticale in alto.



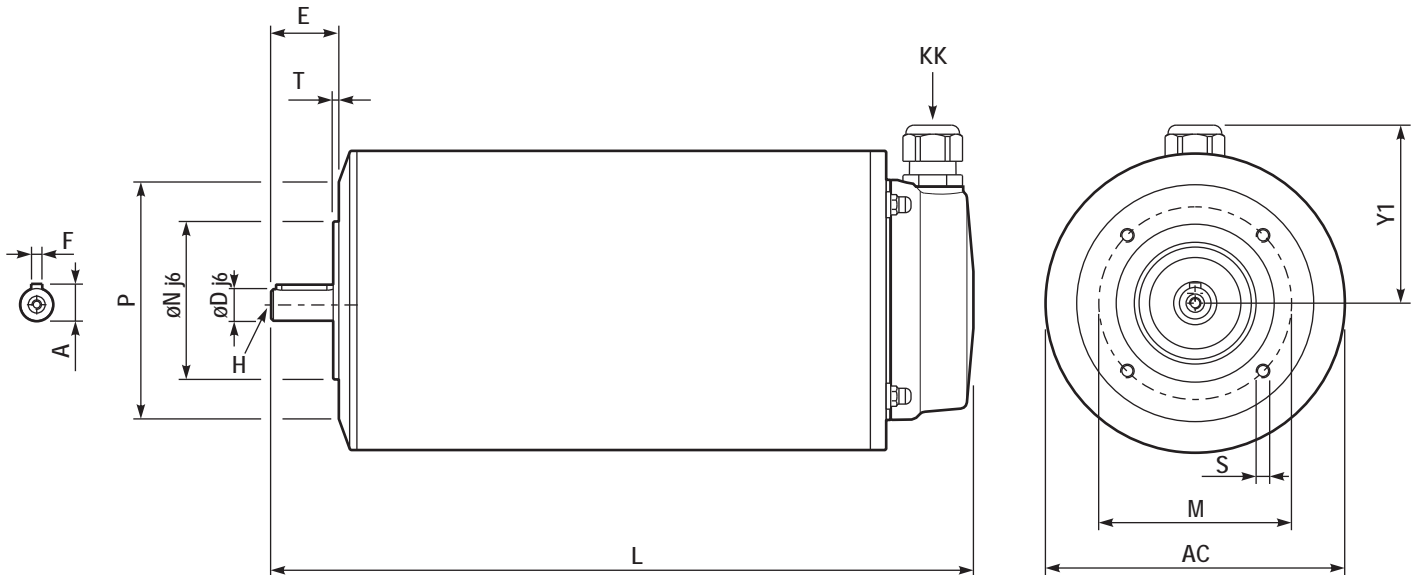
According to IEC 60034-7, there are two ways to define the configuration and installation position for an electric motor. In this table is indicated by the letters IM (International Mounting) followed by another letter (B = horizontal shaft; V = vertical shaft) and from a number.

Le normative IEC 60034-7 prevede due modi alternativi di definire posizione di montaggio di un motore elettrico. Quello indicato in tabella definisce le lettere IM (International Mounting) seguite da un'altra lettera (B = albero orizzontale; V = albero verticale) e da un numero.

TENV Totally Enclosed non ventilated, with terminal box. **kW 0.12÷2.2**
 Totalmente chiuso non ventilato, con morsettiera.

Standard terminal box with cable gland in **radial** position

Standard morsettiera con pressacavo in posizione radiale.



Dimensions

Dimensioni

Motor	2 poles kW	4 poles kW	6 poles kW	A	øD j6 H	E	F	L	M	øN j6	P	S	T	AC	KK	Y1
63A	0.18	0.12	-	12.5	ø11	23	4	264	75	60	90	M5x14	2.5	133	M20x1.5	78
63B	0.25	0.18	-	12.5	M4x11	23	4	264	75	60	90	M5x14	2.5	133	M20x1.5	78
71A	0.37	0.25	0.18	16	ø14	30	5	311	85	70	105	M6x15	2.5	133	M20x1.5	78
71B	0.55	0.37	0.25	16	M5x12	30	5	311	85	70	105	M6x15	2.5	133	M20x1.5	78
80A	0.75	0.55	0.37	21.5	ø19	40	6	350.5	100	80	120	M6x15	3	143	M20x1.5	78
80B	1.1	0.75	0.55	21.5	M6x16	40	6	350.5	100	80	120	M6x15	3	143	M20x1.5	78
90S	1.5	1.1	0.75	27	ø24	50	8	386	115	95	140	M8x20	3	183	M20x1.5	97
90L	2.2	1.5	1.1	27	M8x20	50	8	386	115	95	140	M8x20	3	183	M20x1.5	97

APM series Aluminum premium motors

Motori elettrici in alluminio

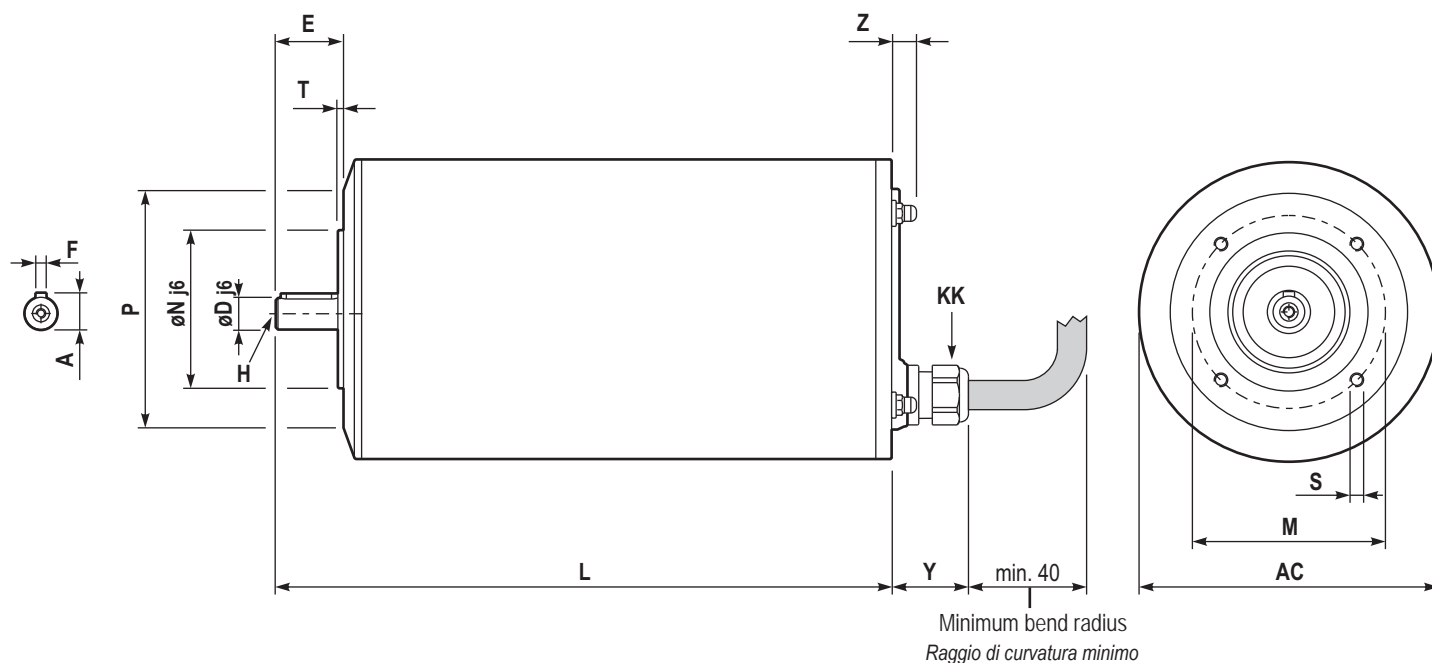
B14

Dimensions

TENV Totally Enclosed non ventilated, with direct cable. **kW 0.12÷2.2**
 Totalmente chiuso non ventilato, con cavo diretto.

On request direct cable with cable gland in **axial** position

A richiesta con cavo diretto e pressacavo in posizione assiale



Dimensions

Dimensioni

Motor	2 poles kW	4 poles kW	6 poles kW	A	$\phi D j6$ H	E	F	L	M	$\phi N j6$	P	S	T	AC	KK	Y	Z
63A	0.18	0.12	-	12.5	$\phi 11$	23	4	225.5	75	60	90	M5x14	2.5	133	M20x1.5	35	11
63B	0.25	0.18	-		M4x11												
71A	0.37	0.25	0.18	16	$\phi 14$	30	5	272.5	85	70	105	M6x15	2.5	133	M20x1.5	35	11
71B	0.55	0.37	0.25		M5x12												
80A	0.75	0.55	0.37	21.5	$\phi 19$	40	6	312	100	80	120	M6x15	3	143	M20x1.5	35	11
80B	1.1	0.75	0.55		M6x16												
90S	1.5	1.1	0.75	27	$\phi 24$	50	8	347.5	115	95	140	M8x20	3	183	M20x1.5	35	11
90L	2.2	1.5	1.1		M8x20												