SPLOŠNE INFORMACIJE

Pri nameščanju reduktorja vedno poskrbite, da:

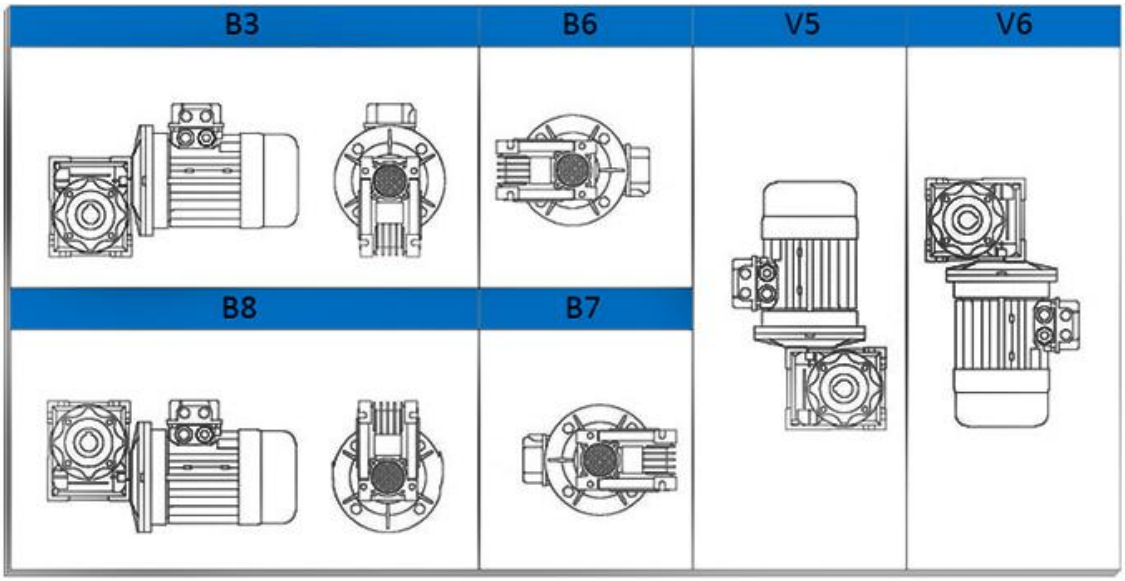
- podatki na imenski tablici ustrezajo podatkom naročenega artikla
- ohišje in gredi so čiste ter nepoškodovane
- je površina, na katero se pritrdi reduktor ravna in dovolj močna
- se reduktor in gred elektromotorja dobro prilegata
- če obstaja možnost vibracij ali zatikanja, je potrebno namesti omejevalnik navora
- rotacijski deli so prekriti s plastični pokrovi
- napravo, ki se uporablja na prostem, mora biti ustrezno vremensko zaščitena
- obratovalni pogoji ne povzročajo korozije (razen, če je predhodno tako dorečeno in sta reduktor in elektromotor pravilno pripravljena)
- zobniki, zobniki gredi, vhodna / izhodna gred so pravilno pritrjeni, da ne postanejo radialne ali aksialne obremenitve, ki ne presegajo največje dovoljene meje
- vse sklopke so premazane z antikorozijskim sredstvom, da se prepreči oksidacija ob stiku
- vsi pritrdilni vijaki morajo biti varno priviti

ROTACIJA ZOBNIKA

Ohišja velikosti od 030 – 090 so iz aluminija, večja 110-150 pa iz litega železa. Različice 030, 040, 050, ,063 so dobavljivi s sintetičnim oljem z viskoznostjo 320, ostali pa z mineralnim oljem z viskoznostjo 460.

POLOŽAJ NAMESTITVE REDUKTOR IN ELEKTROMOTOR IN MAZANJE

Vsi reduktorji vsebujejo olje. Količina in tip olja so napisani v tabeli. Velikosti od 030 – 090 ne zahtevajo posebnega vzdrževanja. Za reduktorje velikosti od 110 -150 zamenjajte olje po **400, nato pa vsakih 4000 delovnih urah.**



	B3	B6	B7	B8	V5	V6
PMRV025	0.023					
PMRV030	0.05					
PMRV040	0.1					
PMRV050	0.15					
PMRV063	0.3					
PMRV075	0.5					
PMRV090	1					
PMRV110	3	2.5	2.5	2.2	3	2.2
PMRV130	4.5	3.5	3.5	3.3	4.5	3.3

	°C -50 0 +50 +100	ISO	SHELL	AGIP	ESSO	MOBIL	CASTROL	BP		
PMRV025~090	-25 +50	VG320	Tivela OIL S320	Telium VSF320	S220	Glygoyle 30	Alphasyn PG320	Energol SG-XP320		Synthetic oil
PMRV110~130	-5 +40	VG460	Omala OIL460	Blasia 460	Spartan EP460	Mobilgear 634	Alpha MAX 460	Energol GR-XP460	CKE460	Mineral oil
	-15 +25	VG220	Omala OIL220	Blasia 220	Spartan EP220	Mobilgear 630	Alpha MAX 220	Energol GR-XP220		

Tabela A: <u>Enakomerna obremenitev:</u>

varnostni faktor / safety factor - sf									
h/d	n - število zagonov na uro / no. starts per hour								
	2	4	8	16	32	63	125	250	500
4	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2
8	1.0	1.0	1.1	1.1	1.3	1.3	1.3	1.3	1.3
16	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
24	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8

h/d * število delovnih ur na dan / working hours per day

Tabela B: <u>Zmerna obremenitev:</u>

varnostni faktor / safety factor - sf									
h/d	n - število zagonov na uro / no. starts per hour								
	2	4	8	16	32	63	125	250	500
4	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3
8	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
16	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8
24	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2

h/d * število delovnih ur na dan / working hours per day

Tabela C: <u>Visoka obremenitev :</u>

varnostni faktor / safety factor - sf									
h/d	n - število zagonov na uro / no. starts per hour								
	2	4	8	16	32	63	125	250	500
4	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
8	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8
16	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2
24	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5

h/d * število delovnih ur na dan / working hours per day

RAZMERJE: **7,5:1**

elektromotor electromotor	reduktor gearbox	izhodni navor output torque M_2 [Nm]	varnostni faktor safety factor - SF	razmerje ratio - i	*n1 [min^{-1}]	**n2 [min^{-1}]
0,55kW (MS80)	RV-50	24	2,9	7,5:1	1400	187
0,75kW (MS80)		33	2,1			
1,1kW (MS90)	RV-63	49	2,6			
1,5kW (MS90)		67	1,9			
2,2kW (MS100)	RV-75	99	1,8			
3kW (MS100)		135	1,3			
4kW (MS100)		180	1,0			
5,5kW (MS132)	RV-110	250	1,9			
7,5kW (MS132)		341	1,4			

*n1 - vrtljaji elektromotorja / motor rpm **n2 - izhodni vrtljaji reduktorja / output gearbox rpm

RAZMERJE: **10:1**

elektromotor electromotor	reduktor gearbox	izhodni navor output torque M_2 [Nm]	varnostni faktor safety factor - SF	razmerje ratio - i	*n1 [min^{-1}]	**n2 [min^{-1}]
0,55kW (MS80)	RV-50	32	2,3	10:1	1400	140
0,75kW (MS80)		43	1,7			
1,1kW (MS90)	RV-63	65	2,0			
1,5kW (MS90)		88	1,5			
2,2kW (MS100)	RV-75	129	1,5			
3kW (MS100)		176	1,1			
4kW (MS100)		235	0,8			
5,5kW (MS132)	RV-110	326	1,6			
7,5kW (MS132)		445	1,2			

*n1 - vrtljaji elektromotorja / motor rpm **n2 - izhodni vrtljaji reduktorja / output gearbox rpm

RAZMERJE: **20:1**

elektromotor electromotor	reduktor gearbox	izhodni navor output torque M_2 [Nm]	varnostni faktor safety factor - SF	razmerje ratio - i	*n1 [min^{-1}]	**n2 [min^{-1}]
0,55kW (MS80)	RV-63	61	2,2	20:1	1400	70
0,75kW (MS80)		83	1,6			
1,1kW (MS90)	RV-75	122	1,6			
1,5kW (MS90)		166	1,2			
2,2kW (MS100)	RV-90	249	1,4			
3kW (MS100)		340	1,0			
4kW (MS100)		453	0,8			
5,5kW (MS132)	RV-130	630	1,4			
7,5kW (MS132)		860	1,1			

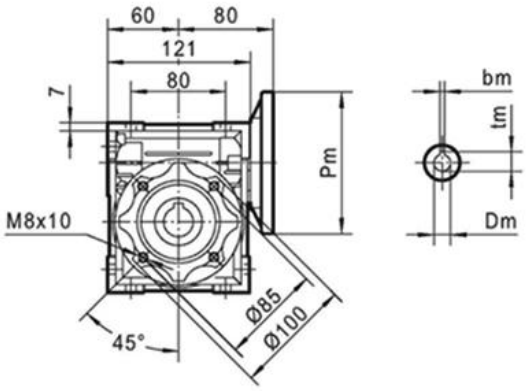
*n1 - vrtljaji elektromotorja / motor rpm **n2 - izhodni vrtljaji reduktorja / output gearbox rpm

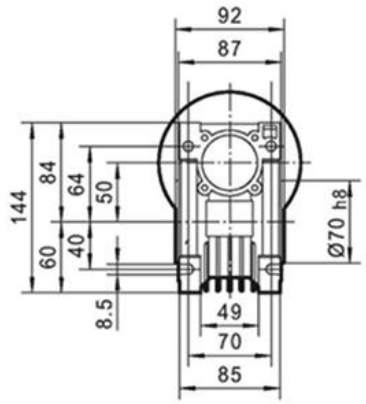
RAZMERJE: **40:1**

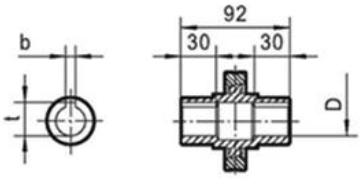
elektromotor electromotor	reduktor gearbox	izhodni navor output torque M_2 [Nm]	varnostni faktor safety factor - SF	razmerje ratio - i	*n1 [min^{-1}]	**n2 [min^{-1}]
0,55kW (MS80)	RV-75	107	2,0	40:1	1400	35
0,75kW (MS80)		143	1,5			
1,1kW (MS90)	RV-90	222	1,6			
1,5kW (MS90)		303	1,2			
2,2kW (MS100)	RV-110	456	1,3			
3kW (MS100)		622	1,0			
4kW (MS100)	RV-130	829	1,3			
5,5kW (MS132)	RV-130	1141	0,9			
7,5kW (MS132)	RV-150	1550	1,0			

*n1 - vrtljaji elektromotorja / motor rpm **n2 - izhodni vrtljaji reduktorja / output gearbox rpm

PMRV-50 dimenzije:

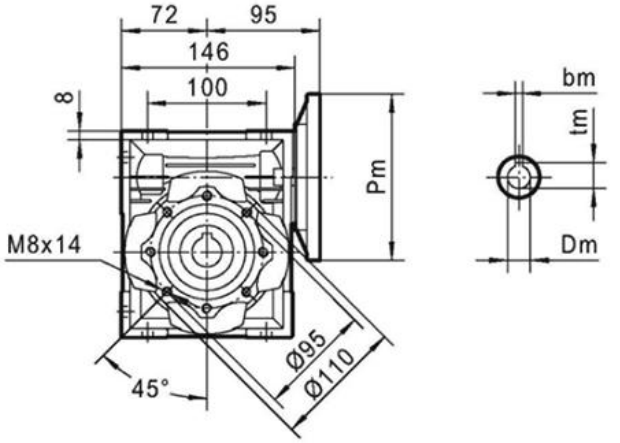


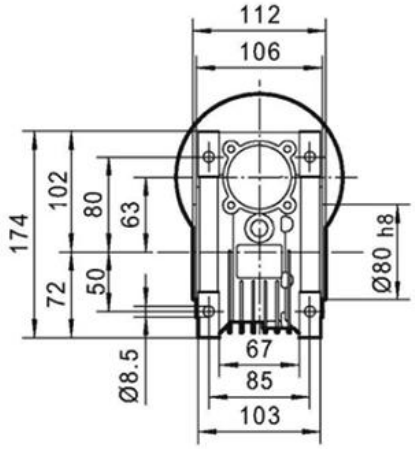


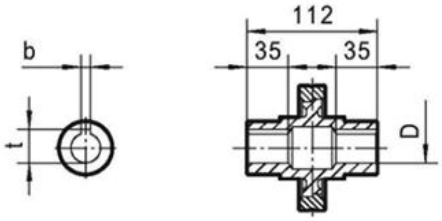


PAM IEC	P_m	D_m E8	b_m	t_m	D H8	b	t
80B5	200	19	6	21.8	25	8	28.3
71B5	160	14	5	16.3	24*	8*	27.3*
63B5	140	11	4	12.8	* - kot možnost		
80B14	120	19	6	21.8			
71B14	105	14	5	16.3			

PMRV-63 dimenzije:

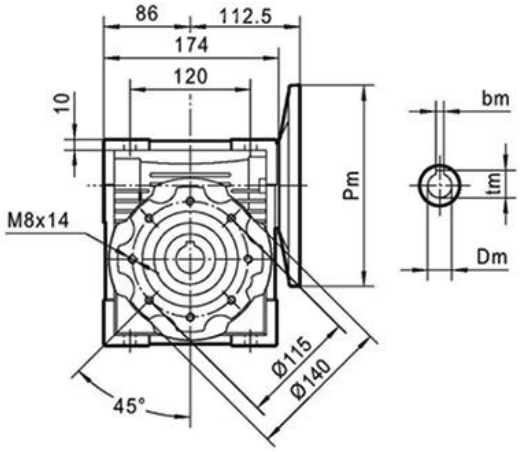


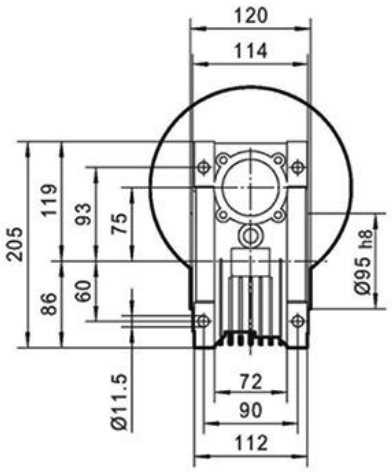


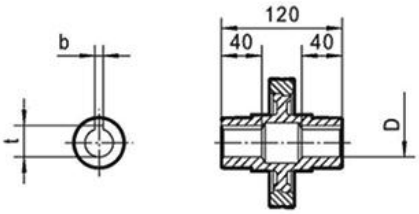


PAM IEC	P_m	D_m E8	b_m	t_m	D H8	b	t
90B5	200	24	8	27.3	25	8	28.3
80B5	200	19	6	21.8	28*	8*	31.3*
71B5	160	14	5	16.3	* - kot možnost		
90B14	140	24	8	27.3			
80B14	120	19	6	21.8			
71B14	105	14	5	16.3			

PMRV-75 dimenzije:

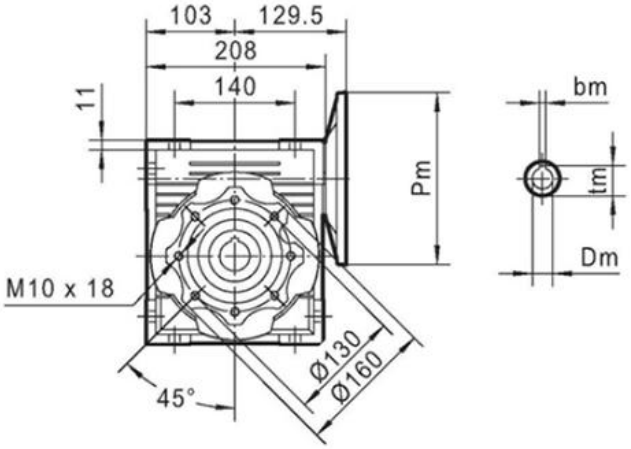


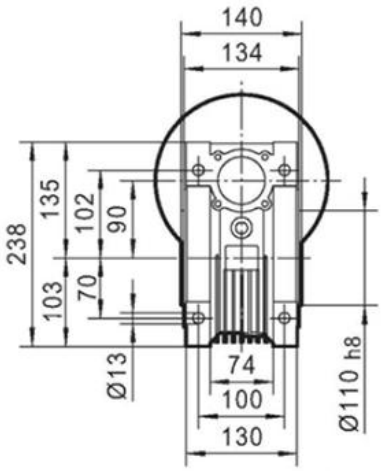


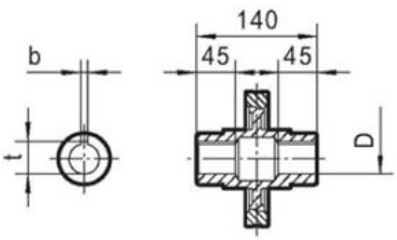


PAM IEC	P_m	$D_{m\ E8}$	b_m	t_m	D H8	b	t
100/112B5	250	28	8	31.3	28	8	31.3
90B5	200	24	8	27.3	35*	10*	38.3*
80B5	200	19	6	21.8	* - kot možnost		
71B5	160	14	5	16.3			
100/112B14	160	28	8	31.3			
90B14	140	24	8	27.3			
80B14	120	19	6	21.8			

PMRV-90 dimenzije:

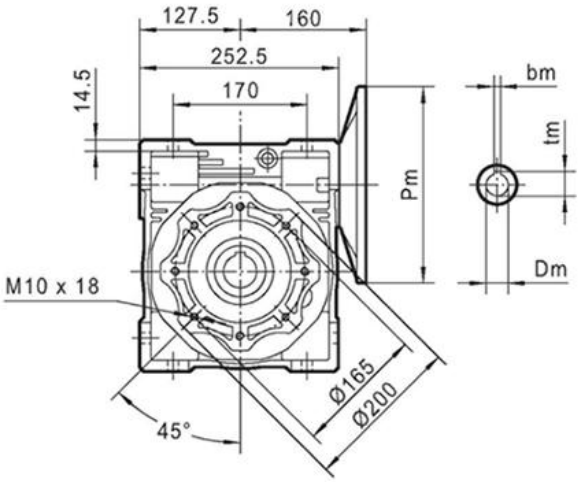


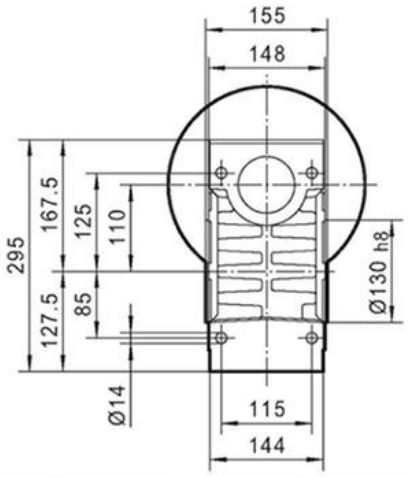


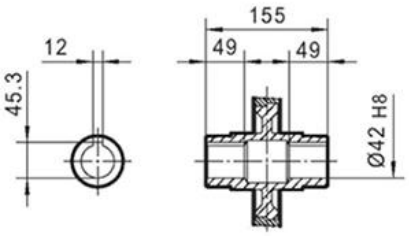


PAM IEC	P_m	$D_{m\ E8}$	b_m	t_m	D H8	b	t
100/112B5	250	28	8	31.3	35	10	38.3
90B5	200	24	8	27.3	38*	10*	41.3*
80B5	200	19	6	21.8	* - kot možnost		
100/112B14	160	28	8	31.3			
90B14	140	24	8	27.3			
80B14	120	19	6	21.8			

PMRV-110 dimenzije:

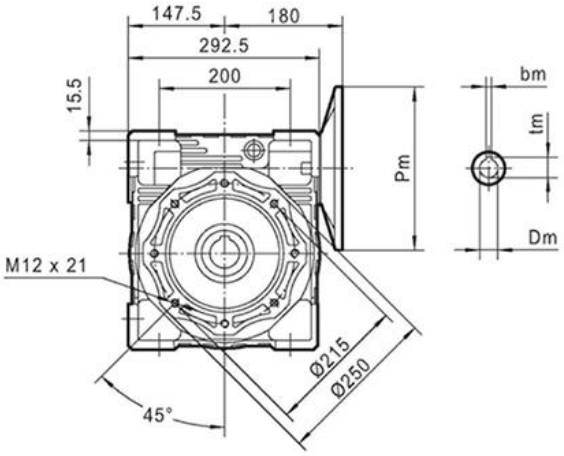


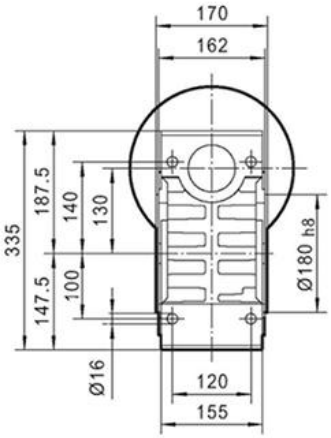


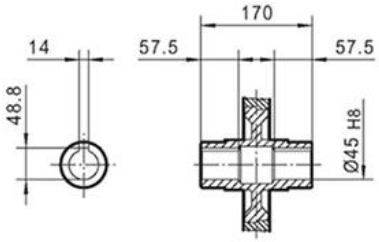


PAM IEC	P_m	D_m E8	b_m	t_m
132B5	300	38	10	41.3
112B5	250	28	8	31.3
100B5	250	28	8	31.3
90B5	200	24	8	27.3
80B5	200	19	6	21.8

PMRV-130 dimenzije:

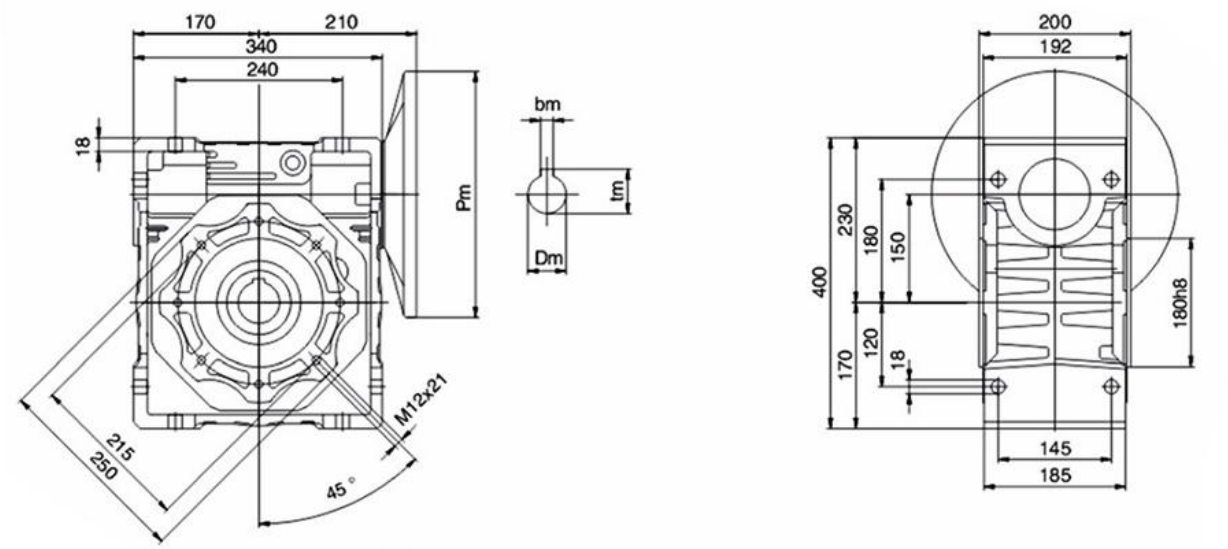


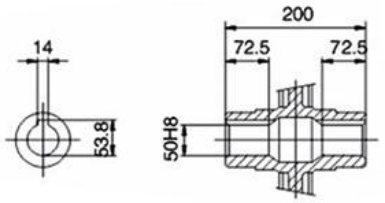




PAM IEC	P_m	D_m E8	b_m	t_m
132B5	300	38	10	41.3
112B5	250	28	8	31.3
100B5	250	28	8	31.3
90B5	200	24	8	27.3

PMRV-150 dimenzije:





PAM IEC	P_m	$D_{m\ E8}$	b_m	t_m
160B5	350	42	12	44.3
132B5	300	38	10	41.3
100B5	250	28	8	31.3

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.06						
56A4 (1400 min^{-1})	**187**	3	6.5	7.5	**030**	B5/B14
	140	3	5.1	10		B5/B14
	93	5	3.8	15		B5/B14
	70	6	3.0	20		B5/B14
	56	7	2.9	25		B5/B14
	47	8	2.5	30		B5/B14
	35	9	1.9	40		B5/B14
	28	11	1.6	50		B5/B14
	23	12	1.2	60		B5/B14
	18	14	0.9	80		B5/B14
	28	13	3.0	50	**040**	B5
	23	14	2.5	60		B5
	18	17	1.9	80		B5
	14	19	1.5	100		B5
0.09						
56A2 (2800 min^{-1})	**112**	6	2.6	25	**030**	B5/B14
	93	6	2.3	30		B5/B14
	70	8	1.8	40		B5/B14
	56	10	1.3	50		B5/B14
	47	10	1.1	60		B5/B14
	35	12	0.9	80		B5/B14
56B4 (1400 min^{-1})	**187**	4	4.3	7.5	**030**	B5/B14
	140	5	3.4	10		B5/B14
	93	7	2.5	15		B5/B14
	70	9	2.0	20		B5/B14
	56	10	1.9	25		B5/B14
	47	12	1.7	30		B5/B14
	35	14	1.3	40		B5/B14
	28	17	1.1	50		B5/B14
	23	18	0.8	60		B5/B14
	18	21	0.6	80		B5/B14
	28	19	2.0	50	**040**	B5
	23	21	1.7	60		B5
	18	26	1.3	80		B5
	14	29	1.0	100		B5
63A6 (900 min^{-1})	**120**	6	3.2	7.5	**030**	B5/B14
	90	8	2.5	10		B5/B14
	60	11	1.8	15		B5/B14
	45	13	1.4	20		B5/B14
	36	15	1.4	25		B5/B14
	30	17	1.3	30		B5/B14
	23	21	1.0	40		B5/B14
	45	14	3.1	20	**040**	B5/B14
	36	17	2.6	25		B5/B14
	30	19	2.5	30		B5/B14
	23	24	1.9	40		B5/B14
	18	28	1.5	50		B5/B14
	15	31	1.3	60		B5/B14
	11	36	1.0	80		B5/B14
	15	32	2.2	60	**050**	B5
	11	36	1.8	80		B5
	9	40	1.4	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.12						
56B2 (2800 min^{-1})	**373**	3	4.5	7.5	**030**	B5/B14
	280	3	3.4	10		B5/B14
	187	5	2.4	15		B5/B14
	140	6	1.9	20		B5/B14
	112	8	2.0	25		B5/B14
	93	9	1.7	30		B5/B14
	70	11	1.3	40		B5/B14
	56	13	0.9	50		B5/B14
	47	14	0.8	60		B5/B14
	93	9	3.6	30	**040**	B5
	70	11	2.8	40		B5
	56	14	2.0	50		B5
	47	15	1.8	60		B5
	35	19	1.3	80		B5
	28	22	1.0	100		B5
63A4 (1400 min^{-1})						B5/B14
	187	5	3.3	7.5	**030**	B5/B14
	140	7	2.5	10		B5/B14
	93	9	1.9	15		B5/B14
	70	12	1.5	20		B5/B14
	56	14	1.5	25		B5/B14
	47	16	1.3	30		B5/B14
	35	19	0.9	40		B5/B14
	28	22	0.8	50		B5/B14
						B5/B14
	187	5	7.2	7.5	**040**	B5/B14
	140	7	5.5	10		B5/B14
	93	10	3.8	15		B5/B14
	70	13	3.1	20		B5/B14
	56	15	2.5	25		B5/B14
	47	17	2.6	30		B5/B14
	35	21	1.9	40		B5/B14
	28	25	1.5	50		B5/B14
	23	28	1.3	60		B5/B14
	18	34	1.0	80		B5/B14
	14	38	0.8	100		B5/B14
	35	22	3.5	40	**050**	B5
	28	26	2.8	50		B5
	23	28	2.3	60		B5
	18	34	1.8	80		B5
	14	38	1.4	100		B5
63B6 (900 min^{-1})						B5/B14
	120	8	2.4	7.5	**030**	B5/B14
	90	10	1.9	10		B5/B14
	60	14	1.3	15		B5/B14
	45	18	1.1	20		B5/B14
	36	20	1.1	25		B5/B14
	60	15	3.0	15	**040**	B5/B14
	45	19	2.3	20		B5/B14
	36	22	2.0	25		B5/B14
	30	25	1.9	30		B5/B14
	23	32	1.4	40		B5/B14
	18	37	1.1	50		B5/B14
	30	26	3.4	30	**050**	B5
	23	32	2.5	40		B5
	18	38	2.0	50		B5
	15	42	1.7	60		B5
	11	48	1.4	80		B5
	9	53	1.0	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.18						
63A2 (2800 min^{-1})	**373**	4	3.0	7.5	**030**	B5/B14
	280	5	2.3	10		B5/B14
	187	7	1.6	15		B5/B14
	140	10	1.3	20		B5/B14
	112	11	1.3	25		B5/B14
	93	13	1.2	30		B5/B14
	140	10	2.9	20	**040**	B5/B14
	112	12	2.4	25		B5/B14
	93	13	2.4	30		B5/B14
	70	17	1.9	40		B5/B14
	56	21	1.3	50		B5/B14
	47	23	1.2	60		B5/B14
	56	21	2.5	50	**050**	B5
	47	24	2.1	60		B5
	35	29	1.6	80		B5
	28	33	1.2	100		B5
63B4 (1400 min^{-1})	**187**	8	2.2	7.5	**030**	B5/B14
	140	10	1.7	10		B5/B14
	93	14	1.3	15		B5/B14
	70	18	1.0	20		B5/B14
	56	21	1.0	25		B5/B14
	47	24	0.8	30		B5/B14
	187	8	4.4	7.5	**040**	B5/B14
	140	10	3.7	10		B5/B14
	93	15	2.5	15		B5/B14
	70	19	2.1	20		B5/B14
	56	22	1.7	25		B5/B14
	47	25	1.7	30		B5/B14
	35	32	1.3	40		B5/B14
	28	39	1.0	50		B5/B14
	23	43	0.8	60		B5/B14
	35	33	2.3	40	**050**	B5
	28	39	1.9	50		B5
	23	43	1.5	60		B5
	18	51	1.2	80		B5
	14	58	0.9	100		B5
71A6 (900 min^{-1})	**120**	12	3.4	7.5	**040**	B5/B14
	90	16	2.7	10		B5/B14
	60	22	2.0	15		B5/B14
	45	28	1.6	20		B5/B14
	36	33	1.3	25		B5/B14
	30	38	1.3	30		B5/B14
	36	34	2.2	25	**050**	B5/B14
	30	38	2.2	30		B5/B14
	23	47	1.7	40		B5/B14
	18	56	1.3	50		B5/B14
	15	63	1.1	60		B5/B14
	15	65	2.1	60	**063**	B5/B14
	11	78	1.6	80		B5/B14
	9	90	1.4	100		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.25						
63B2 (2800 min^{-1})	**373**	5	2.2	7.5	**030**	B5/B14
	280	7	1.7	10		B5/B14
	187	10	1.2	15		B5/B14
	140	13	0.9	20		B5/B14
	112	16	1.0	25		B5/B14
	140	14	2.1	20	**040**	B5/B14
	112	16	1.7	25		B5/B14
	93	19	1.7	30		B5/B14
	70	24	1.3	40		B5/B14
	56	29	1.0	50		B5/B14
	47	33	1.5	60	**050**	B5
	35	40	1.1	80		B5
	28	45	0.9	100		B5
71A4 (1400 min^{-1})	**187**	11	3.5	7.5	**040**	B5/B14
	140	14	2.7	10		B5/B14
	93	21	1.8	15		B5/B14
	70	26	1.5	20		B5/B14
	56	31	1.2	25		B5/B14
	47	36	1.2	30		B5/B14
	35	44	0.9	40		B5/B14
	70	27	2.7	20	**050**	B5/B14
	56	32	2.2	25		B5/B14
	47	36	2.3	30		B5/B14
	35	46	1.7	40		B5/B14
	28	54	1.3	50		B5/B14
	23	59	1.1	60		B5/B14
	18	71	0.9	80		B5/B14
	28	56	2.4	50	**063**	B5/B14
	23	61	2.1	60		B5/B14
	18	75	1.6	80		B5/B14
	14	85	1.4	100		B5/B14
	23	64	3.0	60	**075**	B5
	18	79	2.4	80		B5
	14	90	1.9	100		B5
71B6 (900 min^{-1})	**120**	17	2.5	7.5	**040**	B5/B14
	90	22	1.9	10		B5/B14
	60	31	1.4	15		B5/B14
	45	39	1.1	20		B5/B14
	45	40	1.9	20	**050**	B5/B14
	36	48	1.6	25		B5/B14
	30	53	1.6	30		B5/B14
	23	66	1.2	40		B5/B14
	18	78	1.0	50		B5/B14
	18	82	1.8	50	**063**	B5/B14
	15	91	1.5	60		B5/B14
	11	108	1.2	80		B5/B14
	9	125	1.0	100		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.37						
71A2 (2800 min^{-1})	**373**	8	3.2	7.5	**040**	B5/B14
	280	11	2.6	10		B5/B14
	187	16	1.9	15		B5/B14
	140	20	1.4	20		B5/B14
	112	24	1.2	25		B5/B14
	93	28	1.2	30		B5/B14
	70	37	1.6	40	**050**	B5/B14
	56	43	1.2	50		B5/B14
	47	49	1.0	60		B5/B14
71B4 (1400 min^{-1})	**187**	16	2.3	7.5	**040**	B5/B14
	140	21	1.8	10		B5/B14
	93	31	1.2	15		B5/B14
	70	39	1.0	20		B5/B14
	56	46	0.8	25		B5/B14
	47	53	0.8	30		B5/B14
	70	39	1.8	20	**050**	B5/B14
	56	47	1.5	25		B5/B14
	47	54	1.5	30		B5/B14
	35	68	1.1	40		B5/B14
	28	80	0.9	50		B5/B14
	23	88	0.8	60		B5/B14
	28	83	1.6	50	**063**	B5/B14
	23	91	1.4	60		B5/B14
	18	111	1.1	80		B5/B14
	14	126	0.9	100		B5/B14
	28	85	2.5	50	**075**	B5
	23	95	2.0	60		B5
	18	117	1.6	80		B5
	14	134	1.3	100		B5
80A6 (900 min^{-1})	**60**	46	1.8	15	**050**	B5/B14
	45	59	1.3	20		B5/B14
	36	71	1.1	25		B5/B14
	30	79	1.1	30		B5/B14
	36	74	1.9	25	**063**	B5/B14
	30	82	2.0	30		B5/B14
	23	105	1.5	40		B5/B14
	18	122	1.2	50		B5/B14
	15	134	1.0	60		B5/B14
	18	120	1.8	50	**075**	B5/B14
	15	139	1.5	60		B5/B14
	11	170	1.1	80		B5/B14
	9	196	1.0	100		B5/B14

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.55						
71B2 (2800 min^{-1})	**373**	12	2.1	7.5	**040**	B5/B14
	280	16	1.7	10		B5/B14
	187	23	1.3	15		B5/B14
	140	31	1.7	20	**050**	B5/B14
	112	37	1.3	25		B5/B14
	93	43	1.4	30		B5/B14
	70	55	1.1	40		B5/B14
	70	55	1.8	40	**063**	B5/B14
	56	67	1.4	50		B5/B14
	47	74	1.2	60		B5/B14
	47	79	1.8	60	**075**	B5
	35	96	1.3	80		B5
	28	113	1.0	100		B5
80A4 (1400 min^{-1})	**187**	24	2.9	7.5	**050**	B5/B14
	140	32	2.3	10		B5/B14
	93	46	1.6	15		B5/B14
	70	59	1.2	20		B5/B14
	56	70	1.0	25		B5/B14
	47	80	1.0	30		B5/B14
	93	47	2.9	15	**063**	B5/B14
	70	61	2.2	20		B5/B14
	56	72	1.9	25		B5/B14
	47	82	1.9	30		B5/B14
	35	105	1.4	40		B5/B14
	28	124	1.1	50		B5/B14
	23	135	0.9	60		B5/B14
	35	107	2.0	40	**075**	B5/B14
	28	126	1.7	50		B5/B14
	23	142	1.4	60		B5/B14
	18	174	1.1	80		B5/B14
	14	199	0.9	100		B5/B14
	23	155	2.0	60	**090**	B5/B14
	18	189	1.5	80		B5/B14
	14	218	1.2	100		B5/B14
	18	201	2.4	80	**110**	B5
	14	233	2.0	100		B5
80B6 (900 min^{-1})	**120**	37	2.2	7.5	**050**	B5/B14
	90	48	1.7	10		B5/B14
	60	68	1.2	15		B5/B14
	45	90	1.6	20	**063**	B5/B14
	36	109	1.3	25		B5/B14
	30	123	1.3	30		B5/B14
	23	156	1.0	40		B5/B14
	18	178	1.2	50	**075**	B5/B14
	15	207	1.0	60		B5/B14
	11	275	1.1	80	**090**	B5/B14
	9	315	0.9	100		B5/B14
	11	285	1.9	80	**110**	B5
	9	333	1.5	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
0.75						
80A2 (2800 min^{-1})	**373**	17	2.9	7.5	**050**	B5/B14
	280	22	2.3	10		B5/B14
	187	32	1.7	15		B5/B14
	140	42	1.2	20		B5/B14
	112	51	1.0	25		B5/B14
	93	58	1.0	30		B5/B14
	93	59	1.7	30	**063**	B5/B14
	70	75	1.3	40		B5/B14
	56	91	1.0	50		B5/B14
	35	131	1.0	80	**075**	B5/B14
	28	153	0.8	100		B5/B14
	35	141	1.5	80	**090**	B5/B14
	28	164	1.2	100		B5/B14
80B4 (1400 min^{-1})	**187**	33	2.1	7.5	**050**	B5/B14
	140	43	1.7	10		B5/B14
	93	62	1.2	15		B5/B14
	70	80	0.9	20		B5/B14
	56	96	0.7	25		B5/B14
	47	109	0.8	30		B5/B14
	187	33	3.7	7.5	**063**	B5/B14
	140	44	3.0	10		B5/B14
	93	64	2.1	15		B5/B14
	70	83	1.6	20		B5/B14
	56	98	1.4	25		B5/B14
	47	112	1.4	30		B5/B14
	35	143	1.0	40		B5/B14
	28	169	0.8	50		
	70	83	2.4	20	**075**	B5/B14
	56	100	2.0	25		B5/B14
	47	114	2.0	30		B5/B14
	35	143	1.5	40		B5/B14
	28	171	1.2	50		B5/B14
	23	193	1.0	60		B5/B14
	18	237	0.8	80		B5/B14
	35	151	2.3	40	**090**	B5/B14
	28	184	1.8	50		B5/B14
	23	212	1.5	60		B5/B14
	18	258	1.1	80		B5/B14
	14	297	0.9	100		B5/B14
	18	274	1.8	80	**110**	B5
	14	317	1.4	100		B5
90S6 (900 min^{-1})	**45**	126	1.8	20	**075**	B5/B14
	36	151	1.4	25		B5/B14
	30	172	1.5	30		B5/B14
	23	210	1.1	40		B5/B14
	18	271	1.4	50	**090**	B5/B14
	15	306	1.1	60		B5/B14
	11	388	1.4	80	**110**	B5
	9	454	1.1	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.1						
80B2 (2800 min^{-1})	**373**	25	2.0	7.5	**050**	B5/B14
	280	33	1.6	10		B5/B14
	187	47	1.2	15		B5/B14
	140	62	1.6	20	**063**	B5/B14
	112	75	1.2	25		B5/B14
	93	87	1.2	30		B5/B14
	93	88	1.7	30	**075**	B5/B14
	70	114	1.3	40		B5/B14
	56	135	1.0	50		B5/B14
	47	167	1.4	60	**090**	B5/B14
	35	207	1.0	80		B5/B14
	28	240	0.8	100		B5/B14
90S4 (1400 min^{-1})	**187**	49	2.6	7.5	**063**	B5/B14
	140	65	2.0	10		B5/B14
	93	95	1.4	15		B5/B14
	70	122	1.1	20		B5/B14
	56	144	0.9	25		B5/B14
	47	164	1.0	30		B5/B14
	187	50	3.6	7.5	**075**	B5/B14
	140	65	2.9	10		B5/B14
	93	93	2.1	15		B5/B14
	70	122	1.6	20		B5/B14
	56	146	1.3	25		B5/B14
	47	169	1.3	30		B5/B14
	35	213	1.0	40		B5/B14
	56	154	2.2	25	**090**	B5/B14
	47	171	2.3	30		B5/B14
	35	222	1.6	40		B5/B14
	28	270	1.3	50		B5/B14
	23	311	1.0	60		B5/B14
	35	228	2.7	40	**110**	B5
	28	278	2.2	50		B5
	23	324	1.7	60		B5
	18	402	1.2	80		B5
	14	465	1.0	100		B5
	23	329	2.7	60	**130**	B5
	18	414	2.0	80		B5
	14	480	1.5	100		B5
90L6 (900 min^{-1})	**120**	75	1.9	7.5	**063**	B5/B14
	90	97	1.5	10		B5/B14
	60	140	1.1	15		B5/B14
	45	184	1.2	20	**075**	B5/B14
	36	222	0.9	25		B5/B14
	30	252	1.0	30		B5/B14
	23	331	1.2	40	**090**	B5/B14
	18	397	1.0	50		B5/B14
	15	476	1.3	60	**110**	B5
	11	570	0.9	80		B5
	11	598	1.5	80	**130**	B5
	9	689	1.1	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.5						
90S2 (2800 min^{-1})	**373**	34	2.7	7.5	**063**	B5/B14
	280	45	2.0	10		B5/B14
	187	64	1.6	15		B5/B14
	140	85	1.2	20		B5/B14
	112	104	1.4	25	**075**	B5/B14
	93	120	1.3	30		B5/B14
	70	156	1.0	40		B5/B14
	56	194	1.3	50	**090**	B5/B14
	47	227	1.0	60		B5/B14
90L4 (1400 min^{-1})	**187**	67	1.9	7.5	**063**	B5/B14
	140	88	1.5	10		B5/B14
	93	129	1.0	15		B5/B14
	70	166	0.8	20		B5/B14
	187	68	2.7	7.5	**075**	B5/B14
	140	88	2.2	10		B5/B14
	93	127	1.5	15		B5/B14
	70	166	1.2	20		B5/B14
	56	200	1.0	25		B5/B14
	47	230	1.0	30		B5/B14
	56	210	1.6	25	**090**	B5/B14
	47	233	1.7	30		B5/B14
	35	303	1.2	40		B5/B14
	28	368	0.9	50		B5/B14
	35	311	2.0	40	**110**	B5
	28	379	1.6	50		B5
	23	442	1.3	60		B5
	18	548	0.9	80		B5
	23	448	2.0	60	**130**	B5
	18	565	1.5	80		B5
	14	655	1.1	100		B5
100LA6 (900 min^{-1})	**120**	104	2.0	7.5	**075**	B5/B14
	90	135	1.7	10		B5/B14
	60	196	1.2	15		B5/B14
	45	255	1.5	20	**090**	B5/B14
	36	310	1.2	25		B5/B14
	30	349	1.3	30		B5/B14
	23	465	1.5	40	**110**	B5
	18	565	1.2	50		B5
	15	649	1.0	60		B5
	11	815	1.1	80	**130**	B5
	9	939	0.8	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
1.85						
90LB4 (1400 min^{-1})	**187**	82	1.5	7.5	**063**	B5/B14
	140	109	1.2	10		B5/B14
	93	159	0.8	15		B5/B14
	187	83	2.2	7.5	**075**	B5/B14
	140	109	1.8	10		B5/B14
	93	157	1.2	15		B5/B14
	70	204	1.0	20		B5/B14
	56	246	0.8	25		B5/B14
	47	284	0.8	30		B5/B14
	93	161	2.2	15	**090**	B5/B14
	70	209	1.7	20		B5/B14
	56	259	1.3	25		B5/B14
	47	288	1.4	30		B5/B14
	35	374	0.9	40		B5/B14
	47	292	2.2	30	**110**	B5
	35	384	1.6	40		B5
	28	467	1.3	50		B5
	23	545	1.0	60		B5
	23	553	1.6	60	**130**	B5
	18	697	1.2	80		B5
	14	808	0.9	100		B5
2.2						
90L2 (2800 min^{-1})	**373**	50	1.8	7.5	**063**	B5/B14
	280	65	1.4	10		B5/B14
	187	95	1.1	15		B5/B14
	187	97	1.5	15	**075**	B5/B14
	140	125	1.2	20		B5/B14
	112	158	1.5	25	**090**	B5/B14
	93	180	1.7	30		B5/B14
	70	237	1.1	40		B5/B14
100LA4 (1400 min^{-1})	**187**	99	1.8	7.5	**075**	B5/B14
	140	129	1.5	10		B5/B14
	93	187	1.0	15		B5/B14
	187	99	2.8	7.5	**090**	B5/B14
	140	131	2.3	10		B5/B14
	93	191	1.8	15		B5/B14
	70	249	1.4	20		B5/B14
	56	308	1.1	25		B5/B14
	47	342	1.2	30		B5/B14
	70	252	2.2	20	**110**	B5
	56	311	1.9	25		B5
	47	347	1.8	30		B5
	35	456	1.3	40		B5
	28	555	1.1	50		B5
	23	648	0.9	60		B5
	35	456	2.3	40	**130**	B5
	28	563	1.7	50		B5
	23	657	1.4	60		B5
	18	828	1.0	80		B5
	14	960	0.8	100		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
2.2						
112M6 (900 min^{-1})	**120**	152	2.1	7.5	**090**	B5/B14
	90	198	1.8	10		B5/B14
	60	291	1.4	15		B5/B14
	45	374	1.0	20		B5/B14
	36	473	1.4	25	**110**	B5
	30	525	1.4	30		B5
	23	682	1.0	40		B5
	18	852	1.2	50	**130**	B5
	15	980	1.0	60		B5
3.0						
100LA2 (2800 min^{-1})	**373**	68	1.8	7.5	**075**	B5/B14
	280	90	1.5	10		B5/B14
	187	132	1.1	15		B5/B14
	140	176	1.4	20	**090**	B5/B14
	112	215	1.1	25		B5/B14
	93	246	1.2	30		B5/B14
100LB4 (1400 min^{-1})	**187**	135	1.3	7.5	**075**	B5/B14
	140	176	1.1	10		B5/B14
	93	255	0.8	15		B5/B14
	187	135	2.1	7.5	**090**	B5/B14
	140	178	1.7	10		B5/B14
	93	261	1.3	15		B5/B14
	70	340	1.0	20		B5/B14
	56	420	0.8	25		B5/B14
	47	467	0.9	30		B5/B14
	93	261	2.2	15	**110**	B5
	70	344	1.6	20		B5
	56	425	1.4	25		B5
	47	473	1.3	30		B5
	35	622	1.0	40		B5
	28	757	0.8	50		B5
	35	622	1.7	40	**130**	B5
	28	767	1.3	50		B5
	23	896	1.0	60		B5
132S6 (900 min^{-1})	**120**	210	2.7	7.5	**110**	B5
	90	274	2.3	10		B5
	60	396	1.6	15		B5
	45	522	1.2	20		B5
	36	645	1.6	25	**130**	B5
	30	735	1.6	30		B5
	23	942	1.2	40		B5

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		IEC
4.0						
112M2 (2800 min^{-1})	**373**	91	1.3	7.5	**075**	B5
	280	120	1.1	10		B5
	187	178	1.5	15	**090**	B5
	140	235	1.1	20		B5
112M4 (1400 min^{-1})	**187**	180	1.0	7.5	**075**	B5/B14
	140	235	0.8	10		B5/B14
	187	180	1.6	7.5	**090**	B5/B14
	140	237	1.3	10		B5/B14
	93	348	1.0	15		B5/B14
	70	453	0.8	20		B5/B14
	187	182	2.6	7.5	**110**	B5
	140	237	2.2	10		B5
	93	348	1.6	15		B5
	70	458	1.2	20		B5
	56	566	1.0	25		B5
	47	630	1.0	30		B5
	70	458	2.0	20	**130**	B5
	56	566	1.6	25		B5
	47	647	1.6	30		B5
	35	829	1.3	40		B5
	28	1023	0.9	50		B5
132L6 (900 min^{-1})	**120**	280	2.0	7.5	**110**	B5/B14
	90	365	1.7	10		B5/B14
	60	528	1.2	15		B5/B14
	45	696	1.5	20	**130**	B5/B14
	36	860	1.2	25		B5/B14
	30	980	1.2	30		B5/B14
5.5						
132S4 (1400 min^{-1})	**187**	250	1.9	7.5	**110**	B5/B14
	140	326	1.6	10		B5/B14
	93	478	1.2	15		B5/B14
	70	630	0.9	20		B5/B14
	187	250	3.0	7.5	**130**	B5/B14
	140	330	2.5	10		B5/B14
	93	484	1.9	15		B5/B14
	70	630	1.4	20		B5/B14
	56	778	1.2	25		B5/B14
	47	889	1.2	30		B5/B14
	35	1141	0.9	40		B5/B14
7.5						
132MA4 (1400 min^{-1})	**187**	341	1.4	7.5	**110**	B5/B14
	140	445	1.2	10		B5/B14
	93	652	0.9	15		B5/B14
	187	341	2.2	7.5	**130**	B5/B14
	140	450	1.8	10		B5/B14
	93	660	1.4	15		B5/B14
	70	860	1.1	20		B5/B14
	56	1062	0.9	25		B5/B14
	47	1213	0.9	30		B5/B14