

**Three-phase motors with squirrel-cage rotor, High Efficiency IE2**

with surface cooling, duty type S1, continuous duty  
for rated voltage, thermal class 155 (F), degree of protection IP 55, 50/60 Hz



Motor selection data															Design point 400 V, 50 Hz 460 V, 60 Hz		
Type	U <sub>B</sub> V	f <sub>B</sub> Hz	P <sub>B</sub> kW	M <sub>B</sub> Nm	n <sub>B</sub> rpm	η <sub>B</sub> IEC/EN 60034-2-1			cosφ <sub>B</sub> -	I <sub>B</sub> A	I <sub>A</sub> /I <sub>B</sub> -	M <sub>A</sub> /M <sub>B</sub> -	M <sub>S</sub> /M <sub>B</sub> -	M <sub>K</sub> /M <sub>B</sub> -	J kgm <sup>2</sup>	m kg	
						100 %	75 %	50 %									
Synchronous speed 3000 rpm/3600 rpm – 2-pole version																	
IE2-WE2R 56 G2	400	50	0.12	0.4	2830	IE2-	53.6	69.6	60.8	0.77	0.32	4.5	2.1	2.1	2.3	0.00013	4.5
	460	60	0.14	0.39	3425	IE2-	59.5	74.1	74.3	0.77	0.32	5.0	2.1	2.1	2.6		
IE2-WE2R 63 K2	400	50	0.18	0.62	2790	IE2-	60.4	63.1	57.6	0.76	0.51	4.1	1.9	1.9	2.2	0.00013	4.9
	460	60	0.21	0.59	3400	IE2-	64.0	67.6	61.1	0.75	0.51	4.7	2.4	2.4	2.7		
IE2-WE2R 63 G2	400	50	0.25	0.86	2775	IE2-	64.8	66.7	61.9	0.8	0.67	4.2	1.9	1.9	2.2	0.00015	5.2
	460	60	0.30	0.85	3390	IE2-	68.0	70.6	65.7	0.80	0.66	4.5	2.0	1.9	2.1		
IE2-WE2R 71 K2	400	50	0.37	1.28	2750	IE2-	69.5	70.8	69.4	0.84	0.89	4.6	1.8	1.8	2.1	0.00025	6.7
	460	60	0.44	1.25	3350	IE2-	72.0	73.7	70.0	0.85	0.88	4.9	1.9	1.9	2.2		
IE2-WE2R 71 G2	400	50	0.55	1.89	2775	IE2-	74.1	75.0	72.0	0.81	1.32	5.1	2.3	2.1	2.6	0.00032	7.6
	460	60	0.65	1.84	3370	IE2-	75.5	76.1	72.6	0.83	1.30	5.6	2.1	2.1	2.6		
IE2-WE2R 80 K2	400	50	0.75	2.54	2825	IE2-	77.4	77.1	72.9	0.81	1.72	5.9	2.4	2.4	2.4	0.00057	10.7
	460	60	0.9	2.52	3415	IE2-	75.5	76.5	71.9	0.82	1.76	5.7	2.6	2.3	2.5		
IE2-WE1R 80 G2	400	50	1.1	3.64	2885	IE2-	79.6	82.1	81.2	0.89	2.15	7.8	2.5	2.3	2.8	0.0017	18
	460	60	1.30	3.58	3470	IE2-	84.0	84.6	81.4	0.89	2.15	8.0	2.4	2.2	2.7		
IE2-WE2R 90 S2	400	50	1.5	4.99	2870	IE2-	81.3	82.0	79.4	0.8	3.3	6.6	3.2	3.2	3.7	0.00132	16
	460	60	1.80	4.98	3455	IE2-	84.0	84.2	82.3	0.82	3.25	7.2	3.0	2.9	3.6		
IE2-WE2R 90 L2	400	50	2.2	7.37	2850	IE2-	83.2	81.5	***)	0.85	4.55	7.5	2.8	2.3	2.9	0.0017	19
	460	60	2.6	7.22	3440	IE2-	85.5	85.8	84.7	0.85	4.50	7.8	2.7	2.7	2.9		
IE2-WE2R 100 LY2	400	50	3	9.97	2875	IE2-	84.6	85.1	83.6	0.85	6	7.4	2.6	2.3	3.3	0.0045	28.5
	460	60	3.00	8.20	3495	IE2-	87.5	86.9	84.7	0.83	5.20	8.4	2.6	2.2	3.8		
IE2-WE1R 112 M2	400	50	4	13.2	2900	IE2-	85.8	86.3	***)	0.81	8.4	7.0	2.2	2.1	2.9	0.0045	32
	460	60	4.00	10.88	3510	IE2-	87.5	87.4	84.8	0.80	7.30	8.0	2.1	2.1	3.1		
IE2-WE1R 132 SY2T	400	50	5.5	18.20	2890	IE2-	87.0	86.2	86.4	0.84	11	7.2	2.1	1.7	2.8	0.0055	40.0
	460	60	5.5	15.01	3500	IE2-	88.5	87.8	85.6	0.84	9.5	8.8	2.4	2.2	3		
IE2-WE1R 132 SX2T	400	50	7.5	24.9	2880	IE2-	88.1	88.0	***)	0.84	14.8	6.3	1.5	1.2	2.6	0.0068	48
	460	60	9.00	24.66	3485	IE2-	89.5	88.7	87.5	0.83	15.40	6.7	1.8	1.7	2.9		
IE2-WE1R 132 SX2	400	50	7.5	24.5	2925	IE2-	88.8	89.2	88.3	0.91	13.5	6.7	2.1	1.6	2.9	0.0168	75
	460	60	9.0	24.5	3505	IE2-	89.5	89.4	88.5	0.90	14.0	6.2	2.1	1.7	2.8		

\*\*\*) upon request

### Three-phase motors with squirrel-cage rotor, High Efficiency IE2

with surface cooling, duty type S1, continuous duty  
for rated voltage, thermal class 155 (F), degree of protection IP 55, 50/60 Hz

**IE2** | EU REGULATION 640/2009  
USE WITH VARIABLE  
SPEED DRIVE ONLY!

Motor selection data														Design point 400 V, 50 Hz 460 V, 60 Hz			
Type	U <sub>B</sub> V	f <sub>B</sub> Hz	P <sub>B</sub> kW	M <sub>B</sub> Nm	n <sub>B</sub> rpm	η <sub>B</sub> IEC/EN 60034-2-1			cosφ <sub>B</sub> -	I <sub>B</sub> A	I <sub>x</sub> /I <sub>B</sub> -	M <sub>x</sub> /M <sub>B</sub> -	M <sub>y</sub> /M <sub>B</sub> -	M <sub>z</sub> /M <sub>B</sub> -	J kgm <sup>2</sup>	m kg	
						100 %	75 %	50 %									
Synchronous speed 3000 rpm/3600 rpm – 2-pole version																	
IE2-WE1R 160 M2	400	50	11.0	35.6	2950	IE2-	90.3	90.3	89.1	0.90	19.5	7.7	2.3	1.7	3.1	0.0258	125
	460	60	13.0	35.0	3550	IE2-	91.0	90.9	89.5	0.91	20.0	7.3	2.0	1.6	2.7		
IE2-WE1R 160 MX2	400	50	15.0	48.7	2940	IE2-	90.7	90.5	89.1	0.92	26	6.7	1.8	1.4	2.6	0.0675	140
	460	60	16.5	44.6	3535	IE2-	90.2	89.7	88.4	0.91	25.0	6.5	1.9	1.4	2.6		
IE2-WE1R 160 L2	400	50	18.5	60.2	2935	IE2-	91.0	91.4	91.4	0.91	32	7.2	2.0	1.5	2.8	0.0675	140
	460	60	22.0	59.6	3525	IE2-	91.6	91.3	89.6	0.92	37.5	7.0	1.8	1.3	2.6		
IE2-WE1R 180 M2	400	50	22	72	2935	IE2-	91.3	90.6	86.4	0.90	38.5	6.2	1.4	1.1	2.4	0.105	173
	460	60	26	70	3545	IE2-	91.7	91.6	90.9	0.90	39.5	6.0	1.5	1.2	2.4		
IE2-WE1R 200 L2	400	50	30	97	2945	IE2-	92.0	91.3	90.5	0.91	52	6.9	1.7	1.3	2.6	0.128	210
	460	60	36	97	3550	IE2-	92.4	92.5	91.6	0.91	54.0	6.0	1.4	1.1	2.3		
IE2-WE1R 200 LX2	400	50	37	120	2940	IE2-	92.5	92.3	91.6	0.92	63	7.4	1.9	1.4	2.9	0.154	233
	460	60	44	119	3545	IE2-	93.0	92.4	92.1	0.91	65.5	6.8	1.9	1.5	2.8		
IE2-WE2R 200 LX2	400	50	37	120	2940	IE2-	92.5	92.3	91.6	0.92	63	7.4	1.9	1.4	2.9	0.154	233
	460	60	44	119	3545	IE2-	93.0	92.4	92.1	0.91	65.5	6.8	1.9	1.5	2.8		
IE2-WE1R 225 M2	400	50	45	146	2950	IE2-	92.9	92.2	91.2	0.87	80.5	6.9	1.7	1.1	2.7	0.220	295
	460	60	54	145	3545	IE2-	93.0	92.5	91.8	0.88	83.0	6.9	1.7	1.4	2.8		
IE2-WE1R 250 M2	400	50	55	178	2955	IE2-	93.5	93.7	93.2	0.89	95.5	8.2	2.3	1.9	2.8	0.375	385
	460	60	66	178	3550	IE2-	93.6	93.7	93.0	0.90	98.5	7.6	2.1	1.8	2.7		
IE2-WE1R 280 S2	400	50	75	241	2970	IE2-	94.1	94.0	91.5	0.90	128	7.9	2.1	1.7	3.0	0.65	500
	460	60	90	241	3570	IE2-	94.5	93.9	92.8	0.91	131	7.3	1.9	1.6	2.8		
IE2-WE1R 280 M2	400	50	90	289	2970	IE2-	94.4	94.1	91.9	0.91	151	7.7	2.0	1.7	2.8	0.68	550
	460	60	110	294	3568	IE2-	94.5	94.0	93.7	0.91	161	7.5	1.9	1.6	2.7		
IE2-WE1R 315 S2	400	50	110	353	2975	IE2-	94.5	94.3	93.3	0.89	189	8.0	1.3	1.2	2.4	1.21	730
	460	60	120	320	3580	IE2-	94.5	94.0	93.0	0.89	179	8.5	1.4	1.3	2.5		
IE2-WE1R 315 M2	400	50	132	424	2975	IE2-	95.0	94.8	94.5	0.89	225	9.2	1.4	1.2	2.4	1.44	820
	460	60	145	387	3580	IE2-	95.0	94.5	94.0	0.90	213	9.4	1.4	1.2	2.4		
IE2-WE1R 315 MX2	400	50	160	514	2973	IE2-	94.8	94.8	94.8	0.89	274	8.2	1.3	1.3	2.4	1.76	955
	460	60	175	467	3575	IE2-	95.4	95.0	94.0	0.90	256	8.2	1.7	1.6	2.7		
IE2-WE1R 315 MY2	400	50	200	640	2983	IE2-	95.4	95.0	94.3	0.88	344	9.4	2.8	2.0	3.0	2.82	1200
	460	60	220	586	3585	IE2-	95.4	95.0	94.0	0.89	325	9.5	2.8	2.0	3.0		
IE2-WE1R 315 L2	400	50	250	800	2984	IE2-	95.4	95.4	95.4	0.92	411	9.0	2.3	1.2	2.3	3.66	1450
	460	60	280	747	3580	IE2-	95.5	95.5	95.5	0.92	400	8.0	2.3	1.4	2.3		
IE2-WE1R 315 LX2	400	50	315	1008	2985	IE2-	95.4	95.4	95.0	0.92	518	8.5	2.8	1.6	2.5	4.43	1700
	460	60	330	879	3585	IE2-	95.4	95.4	95.4	0.92	472	9.0	2.8	1.6	2.5		
IE2-WE2R 355 M2	400	50	355	1136	2985	IE2-	95.5	95.5	95.5	0.92	583	7.7	1.3	1.0	2.6	4.20	2000
	460	60	375	999	3585	IE2-	95.4	95.0	94.5	0.91	542	8.5	1.5	1.3	2.2		
IE2-WE2R 355 MX2	400	50	400	1278	2990	IE2-	95.5	95.5	95.5	0.91	664	9.4	1.8	1.0	3.0	4.50	2200
	460	60	440	1170	3590	IE2-	95.8	95.5	95.0	0.91	633	9.4	1.7	1.1	3.0		
IE2-WE2R 355 LY2	400	50	450	1440	2985	IE2-	95.5	95.5	95.5	0.92	739	7.0	1.3	0.9	2.4	7.10	2400
	460	60	490	1303	3590	IE2-	95.5	95.5	95.0	0.92	700	7.5	1.5	0.9	2.4		
IE2-WE2R 355 L2	400	50	500	1597	2990	IE2-	95.5	95.5	95.5	0.92	821	8.5	1.5	1.2	2.5	7.10	2400
	460	60	550	1467	3580	IE2-	95.5	95.5	95.0	0.92	786	8.5	1.5	1.0	2.4		

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

with surface cooling, duty type S1, continuous duty  
for rated voltage, thermal class 155 (F), degree of protection IP 55, 50/60 Hz



Motor selection data															Design point 400 V, 50 Hz 460 V, 60 Hz	
Type	U <sub>B</sub> V	f <sub>B</sub> Hz	P <sub>B</sub> kW	M <sub>B</sub> Nm	n <sub>B</sub> rpm	η <sub>B</sub> IEC/EN 60034-2-1			cosφ <sub>B</sub> -	I <sub>B</sub> A	I <sub>A</sub> /I <sub>B</sub> -	M <sub>A</sub> /M <sub>B</sub> -	M <sub>S</sub> /M <sub>B</sub> -	M <sub>R</sub> /M <sub>B</sub> -	J kgm <sup>2</sup>	m kg
						100 %	75 %	50 %								
Synchronous speed 1500 rpm/1800 rpm – 4-pole version																
IE2-W21R 63 K4	400	50	0.12	0.82	1400	IE2- 59.1	69.1	63.9	0.71	0.35	3.8	2.0	1.9	2.3	0.0004	6.3
	460	60	0.14	0.79	1700	IE2- 64.0	70.3	65.8	0.71	0.35	4.1	2.0	1.9	2.4		
IE2-WE1R 63 GY4	400	50	0.18	1.23	1395	IE2- 64.7	66.3	61.3	0.72	0.54	3.5	1.7	1.7	2.2	0.0004	6.3
	460	60	0.21	1.18	1695	IE2- 68.0	69.3	64.7	0.71	0.53	3.0	1.9	1.9	2.4		
IE2-WE2R 71 K4	400	50	0.25	1.71	1395	IE2- 68.5	68.1	63.8	0.70	0.73	3.9	2.1	2.1	2.5	0.0005	7.8
	460	60	0.30	1.7	1690	IE2- 70.0	73.2	69.4	0.71	0.72	4.1	2.1	2.1	2.5		
IE2-WE1R 71 GY4	400	50	0.37	2.48	1425	IE2- 72.7	72.2	68.6	0.69	1.00	4.9	2.4	2.4	3.0	0.00087	9.9
	460	60	0.44	2.44	1720	IE2- 72.0	78.2	74.6	0.71	0.98	5.2	2.1	2.1	2.9		
IE2-WE2R 80 K4	400	50	0.55	3.71	1415	IE2- 77.1	77.1	73.9	0.72	1.42	4.9	2.6	2.5	2.8	0.00107	11.7
	460	60	0.65	3.67	1715	IE2- 78.0	80.1	77.6	0.75	1.35	5.3	2.5	2.3	2.9		
IE2-WE1R 80 GY4	400	50	0.75	5.01	1430	IE2- 79.6	78.0	74.7	0.80	1.73	5.7	2.2	2.2	3.1	0.00207	14.5
	460	60	0.90	4.98	1725	IE2- 78.0	79.4	76.5	0.81	1.75	6.1	2.2	2.1	3.2		
IE2-WE2R 90 S4	400	50	1.10	7.32	1435	IE2- 81.4	80.1	77.0	0.76	2.60	6.3	3.0	3.0	3.8	0.0028	18.5
	460	60	1.30	7.18	1730	IE2- 84.0	83.6	80.6	0.8	2.5	7.0	3.0	2.8	3.8		
IE2-WE1R 90 LW4	400	50	1.50	9.95	1440	IE2- 82.8	83.8	81.4	0.76	3.40	6.5	2.7	2.7	3.6	0.004	23
	460	60	1.80	9.91	1735	IE2- 84.0	84.9	74.7	0.78	3.40	6.7	2.6	2.5	3.6		
IE2-WE1R 100 L4	400	50	2.20	14.4	1455	IE2- 84.3	85.2	81.7	0.77	4.80	9.3	3.2	3.0	3.6	0.009	36
	460	60	2.60	14.1	1755	IE2- 87.5	86.7	84.7	0.76	4.90	7.7	2.2	2.1	3.4		
IE2-WE1R 100 LW4	400	50	3.00	19.8	1445	IE2- 85.5	85.8	83.6	0.79	6.33	7.8	3.0	2.9	3.6	0.009	36
	460	60	3.60	19.7	1745	IE2- 87.5	88.1	86.5	0.79	6.50	7.6	2.7	2.5	3.8		
IE2-WE1R 112 MZ4	400	50	4.00	26.4	1445	IE2- 86.6	86.8	84.9	0.80	8.30	8.2	2.8	2.6	3.6	0.013	50
	460	60	4.50	24.6	1745	IE2- 87.5	87.5	85.9	0.80	8.05	7.8	2.4	2.3	3.5		
IE2-WE2R 132 SY4	400	50	5.50	36.2	1450	IE2- 87.7	87.7	86.4	0.84	10.80	8.0	2.5	2.3	3.8	0.015	***)
	460	60	6.60	36.12	1745	IE2- 89.5	89.3	88.6	0.87	10.80	7.7	2.1	1.9	3.6		
IE2-WE1R 132 S4	400	50	5.5	35.7	1470	IE2- 89.8	89.9	88.4	0.87	10	7.4	2.3	1.9	3.4	0.035	87
	460	60	6.6	35.7	1765	IE2- 89.8	90.0	88.5	0.88	11	6.6	2.2	1.6	3.0		
IE2-WE1R 132 M4	400	50	7.5	48.7	1470	IE2- 89.9	90.0	88.5	0.82	14.5	8.5	2.6	2.1	4.0	0.035	88
	460	60	9.0	48.6	1770	IE2- 90.8	90.6	89.0	0.83	15	8.1	2.5	2.0	3.8		

\*\*\*) upon request

### Three-phase motors with squirrel-cage rotor, High Efficiency IE2

with surface cooling, duty type S1, continuous duty  
for rated voltage, thermal class 155 (F), degree of protection IP 55, 50/60 Hz

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USE WITH VARIABLE  
SPEED DRIVE ONLY!

Motor selection data															Design point 400 V, 50 Hz 460 V, 60 Hz		
Type	U <sub>B</sub> V	f <sub>B</sub> Hz	P <sub>B</sub> kW	M <sub>B</sub> Nm	n <sub>B</sub> rpm	IEC/EN 60034-2-1			cosφ <sub>B</sub> -	I <sub>B</sub> A	I <sub>x</sub> /I <sub>B</sub> -	M <sub>x</sub> /M <sub>B</sub> -	M <sub>s</sub> /M <sub>B</sub> -	M <sub>k</sub> /M <sub>B</sub> -	J kgm <sup>2</sup>	m kg	
						100 %	75 %	50 %									
Synchronous speed 1500 rpm/1800 rpm – 4-pole version																	
IE2-WE1R 160 M4	400	50	11.0	71	1475	IE2-	90.6	90.3	88.5	0.82	21.5	8.1	3.1	2.4	3.4	0.078	122
	460	60	13.0	70	1775	IE2-	91.1	90.8	89.2	0.82	22.0	7.7	2.8	2.2	3.2		
IE2-WE2R 160 M4	400	50	11	71.5	1470	IE2-	90.3	90.3	88.5	0.78	22.5	7.8	2.4	2.1	3.9	0.043	105
	460	60	13	70	1765	IE2-	91.3	91.5	90.4	0.80	22.5	7.5	2.3	1.9	3.6		
IE2-WE1R 160 L4	400	50	15.0	97	1470	IE2-	90.6	90.9	90.5	0.87	27.5	8.3	2.7	2.2	3.2	0.115	160
	460	60	18.0	97	1770	IE2-	92.5	92.4	91.4	0.86	28.0	8.0	2.5	2.0	3.0		
IE2-WE2R 160 L4	400	50	15	97	1480	IE2-	92.0	92.0	90.6	0.84	28	9.1	3.0	2.5	3.9	0.115	161
	460	60	18	97	1775	IE2-	92.5	92.4	91.4	0.85	28.5	8.5	2.7	2.3	3.5		
IE2-WE1R 180 M4	400	50	18.5	120	1475	IE2-	91.5	91.5	90.4	0.86	34	6.8	1.8	1.5	2.7	0.168	207
	460	60	22.0	118	1775	IE2-	92.4	91.4	89.9	0.86	35.0	6.3	1.6	1.4	2.5		
IE2-WE2R 180 M4	400	50	18.5	120	1470	IE2-	91.2	90.6	89.3	0.78	37.5	6.4	2.0	1.6	2.8	0.138	176
	460	60	22	118	1775	IE2-	92.4	91.5	90.1	0.80	37.5	6.1	1.9	1.5	2.6		
IE2-WE1R 180 L4	400	50	22	142	1475	IE2-	91.6	91.4	89.9	0.83	42	7.3	2.1	1.7	3.0	0.168	215
	460	60	26	139	1780	IE2-	93.0	91.7	90.0	0.84	42.0	7.2	2.0	1.7	2.9		
IE2-WE1R 200 L4	400	50	30	194	1480	IE2-	92.3	91.3	88.2	0.80	58.5	7.3	2.1	1.7	2.9	0.275	277
	460	60	36	193	1780	IE2-	93.0	92.5	91.4	0.82	59.5	6.8	2.0	1.7	2.8		
IE2-WE1R 225 S4	400	50	37	240	1475	IE2-	92.7	91.8	90.7	0.84	68.5	7.4	2.2	1.7	2.7	0.313	313
	460	60	44	237	1775	IE2-	93.6	92.9	92.1	0.83	71.5	6.5	1.9	1.6	2.5		
IE2-WE1R 225 M4	400	50	45	290	1483	IE2-	93.1	93.0	91.1	0.84	83	7.9	2.3	1.9	2.4	0.525	390
	460	60	49	263	1780	IE2-	93.6	93.0	91.5	0.84	78.0	8.0	2.2	1.8	2.4		
IE2-WE2R 225 M4	400	50	45	291	1475	IE2-	93.1	92.9	92.1	0.80	87	7.6	2.6	1.9	3.1	0.356	346
	460	60	45	242	1775	IE2-	93.6	92.7	91.2	0.80	75.5	8.3	2.9	2.1	3.3		
IE2-WE1R 250 M4	400	50	55	354	1485	IE2-	94.0	94.1	92.5	0.84	101	8.0	2.0	1.7	2.3	0.95	535
	460	60	64	343	1780	IE2-	94.1	93.5	93.0	0.85	100	7.6	1.7	1.5	2.2		
IE2-WE2R 250 M4	400	50	55	356	1477	IE2-	93.9	93.8	93.7	0.82	103	7.5	2.4	1.9	2.4	0.62	435
	460	60	63	339	1777	IE2-	94.1	93.6	93.2	0.83	101	7.2	2.3	1.8	2.3		
IE2-WE1R 280 S4	400	50	75	482	1485	IE2-	94.2	94.4	92.1	0.84	137	7.2	1.8	1.6	2.1	0.95	550
	460	60	90	483	1779	IE2-	94.5	94.2	93.9	0.84	142	6.6	1.7	1.4	2.0		
IE2-WE1R 280 M4	400	50	90	580	1483	IE2-	94.3	94.5	94.0	0.84	164	7.6	1.8	1.6	2.3	1.10	610
	460	60	105	563	1780	IE2-	95.0	94.6	94.1	0.84	166	7.4	1.8	1.6	2.2		
IE2-WE1R 315 S4	400	50	110	707	1485	IE2-	94.8	94.8	94.0	0.82	204	8.5	1.8	1.5	2.7	1.96	760
	460	60	132	707	1784	IE2-	95.2	95.2	94.6	0.85	205	8.0	1.6	1.5	2.2		
IE2-WE1R 315 M4	400	50	132	849	1484	IE2-	95.0	95.0	94.5	0.83	242	8.2	1.8	1.6	2.3	2.27	850
	460	60	145	776	1784	IE2-	95.0	95.0	94.5	0.85	225	8.2	1.9	1.7	2.3		
IE2-WE1R 315 MX4	400	50	160	1031	1482	IE2-	95.0	95.0	94.5	0.84	289	7.4	1.6	1.4	2.2	2.73	975
	460	60	175	939	1780	IE2-	95.1	95.1	94.5	0.85	272	8.0	1.6	1.5	2.2		
IE2-WE1R 315 MY4	400	50	200	1282	1490	IE2-	95.1	95.1	94.5	0.87	349	8.5	1.8	1.6	2.5	4.82	1270
	460	60	220	1174	1790	IE2-	95.4	95.4	95.0	0.87	333	8.8	2.0	1.6	2.6		
IE2-WE1R 315 L4	400	50	250	1602	1490	IE2-	95.4	95.4	95.3	0.88	430	9.0	2.2	1.5	2.7	5.93	1450
	460	60	280	1792	1790	IE2-	95.4	95.4	95.3	0.88	419	8.5	2.2	1.6	2.5		
IE2-WE1R 315 LX4	400	50	315	2019	1490	IE2-	95.4	95.4	95.0	0.88	542	9.0	2.4	1.6	2.6	6.82	1630
	460	60	330	1761	1790	IE2-	95.4	94.5	93.5	0.87	499	9.2	2.5	1.7	1.7		
IE2-WE2R 355 M4	400	50	355	2271	1493	IE2-	95.5	95.5	95.0	0.87	617	8.0	1.3	1.0	2.7	7.90	2150
	460	60	375	1997	1793	IE2-	95.4	95.4	94.5	0.87	567	9.0	1.3	0.9	2.9		
IE2-WE2R 355 MX4	400	50	400	2557	1494	IE2-	95.5	95.5	95.5	0.88	687	8.5	1.3	1.0	3.0	9.50	2400
	460	60	425	2267	1790	IE2-	95.8	95.8	95.5	0.87	640	9.0	1.4	1.0	3.1		
IE2-WE2R 355 LY4	400	50	450	2873	1496	IE2-	95.5	95.5	95.5	0.86	791	8.5	1.4	0.8	2.9	10.00	2500
	460	60	475	2529	1794	IE2-	95.8	95.8	95.5	0.83	750	9.2	1.5	1.0	3.5		
IE2-WE2R 355 L4	400	50	500	3198	1493	IE2-	95.5	95.5	95.5	0.84	900	8.0	1.2	0.9	3.0	10.00	2500
	460	60	525	2795	1794	IE2-	95.8	95.8	95.5	0.83	829	9.0	1.3	1.0	3.3		

**Three-phase motors with squirrel-cage rotor, High Efficiency IE2**

with surface cooling, duty type S1, continuous duty  
for rated voltage, thermal class 155 (F), degree of protection IP 55, 50/60 Hz



Motor selection data															Design point 400 V, 50 Hz 460 V, 60 Hz		
Type	U <sub>B</sub> V	f <sub>B</sub> Hz	P <sub>B</sub> kW	M <sub>B</sub> Nm	n <sub>B</sub> rpm	η <sub>B</sub> IEC/EN 60034-2-1			cosφ <sub>B</sub> -	I <sub>B</sub> A	I <sub>K</sub> /I <sub>B</sub> -	M <sub>K</sub> /M <sub>B</sub> -	M <sub>S</sub> /M <sub>B</sub> -	M <sub>K</sub> /M <sub>B</sub> -	J kgm <sup>2</sup>	m kg	
						100 %	75 %	50 %									
Synchronous speed 1000 rpm/1200 rpm – 6-pole version																	
IE2-WE2R 63 G6	400	50	0.12	1.3	880	IE2-	50.6	47.0	39.5	0.59	0.59	2.6	2.1	2.1	2.3	0.00027	5.7
	460	60	0.14	1.23	1090	IE2-	50.5	51.0	43.8	0.55	0.60	2.6	1.8	1.8	2.2		
IE2-WE2R 71 K6	400	50	0.18	1.87	920	IE2-	56.6	54.4	48.5	0.52	0.80	2.9	2.0	2.0	2.3	0.0006	8.3
	460	60	0.21	1.8	1115	IE2-	55.0	63.5	57.3	0.52	0.78	2.9	1.6	1.6	2.1		
IE2-WE2R 71 G6	400	50	0.25	2.61	915	IE2-	61.6	57.5	51.6	0.55	1.1	2.9	2.0	2.0	2.2	0.0006	8.3
	460	60	0.30	2.58	1110	IE2-	59.5	62.9	56.7	0.55	1.05	3.1	1.8	1.8	2.2		
IE2-WE2R 80 K6	400	50	0.37	3.78	935	IE2-	67.6	68.5	63.3	0.65	1.17	3.7	2.1	2.1	2.6	0.00175	12.5
	460	60	0.44	3.7	1135	IE2-	64	71.8	67.1	0.66	1.15	4	2	2	2.6		
IE2-WE1R 80 GY6	400	50	0.55	5.56	945	IE2-	73.1	72.6	68.4	0.67	1.62	3.8	1.9	1.9	2.4	0.00325	15
	460	60	0.65	5.49	1130	IE2-	73.0	74	70.2	0.68	1.6	4	2	2	2.2		
IE2-WE2R 90 S6	400	50	0.75	7.58	945	IE2-	75.9	75.5	72.1	0.67	2.12	4.0	1.8	1.8	2.4	0.00425	19
	460	60	0.9	7.51	1145	IE2-	73.0	77.8	74.5	0.68	2.1	4.7	2.1	2.1	2.7		
IE2-WE1R 90 LW6	400	50	1.1	11.0	955	IE2-	78.1	78.0	75.1	0.69	2.95	4.7	2.5	2.4	2.8	0.00625	24
	460	60	-	-	-	-	-	-	-	-	-	-	-	-	-		
IE2-WE2R 100 L6	400	50	1.5	15.1	950	IE2-	79.8	80.4	77.6	0.70	3.85	5.1	2.5	2.4	3.0	0.0072	30
	460	60	0.92	7.5	1180	IE2-	73.0	79.3	75.9	0.5	2.9	5.9	2.9	2.7	3.5		
IE2-WE1R 112 MX6	400	50	2.2	21.9	960	IE2-	81.8	81.9	77.5	0.65	5.9	6.4	3.0	2.9	3.7	0.0139	37
	460	60	-	-	-	-	-	-	-	-	-	-	-	-	-		
IE2-WE1R 132 S6	400	50	3.0	29.8	963	IE2-	83.3	85.2	83.9	0.80	6.40	6.0	2.0	1.3	3.0	0.023	55
	460	60	3.6	29.6	1160	IE2-	87.5	86.8	85.4	0.81	6.4	5.7	1.8	1.2	2.8		
IE2-WE2R 132 M6	400	50	4.0	40.0	955	IE2-	84.6	86.0	85.2	0.82	8.30	5.7	2.1	2.0	2.9	0.029	66
	460	60	4.5	37.2	1155	IE2-	87.5	87.2	86.1	0.82	8	5.7	2.1	1.9	2.9		
IE2-WE1R 132 M6	400	50	4.0	39.6	965	IE2-	85.5	85.5	83.8	0.79	8.5	5.1	1.8	1.6	2.4	0.043	76
	460	60	4.5	36.9	1165	IE2-	87.5	86.0	83.4	0.79	8	5.3	1.8	1.6	2.5		
IE2-WE1R 132 MX6	400	50	5.5	54	970	IE2-	86.1	85.5	82.4	0.77	12	5.7	2.2	1.7	2.7	0.053	85
	460	60	6.6	54	1170	IE2-	89.5	88.5	87.1	0.8	11.5	5.6	1.9	1.7	2.9		

### Three-phase motors with squirrel-cage rotor, High Efficiency IE2

with surface cooling, duty type S1, continuous duty  
for rated voltage, thermal class 155 (F), degree of protection IP 55, 50/60 Hz

**IE2** | EU REGULATION 640/2009  
USE WITH VARIABLE  
SPEED DRIVE ONLY!

Motor selection data															Design point 400 V, 50 Hz 460 V, 60 Hz		
Type	U <sub>B</sub> V	f <sub>B</sub> Hz	P <sub>B</sub> kW	M <sub>B</sub> Nm	n <sub>B</sub> rpm	η <sub>B</sub> IEC/EN 60034-2-1			cosφ <sub>B</sub> -	I <sub>B</sub> A	I <sub>x</sub> /I <sub>B</sub> -	M <sub>x</sub> /M <sub>B</sub> -	M <sub>g</sub> /M <sub>B</sub> -	M <sub>k</sub> /M <sub>B</sub> -	J kgm <sup>2</sup>	m kg	
						100 %	75 %	50 %									
Synchronous speed 1000 rpm/1200 rpm – 6-pole version																	
IE2-WE1R 160 M6	400	50	7.5	73	975	IE2-	87.4	88.1	86.0	0.81	15.5	6.3	2.5	2.1	2.9	0.113	118
	460	60	9.0	73	1175	IE2-	89.5	88.9	87.0	0.82	16	5.8	2.2	2.0	2.7		
IE2-WE2R 160 M6	400	50	7.5	74	970	IE2-	87.5	87.6	85.9	0.79	15.5	5.9	2.1	1.8	2.9	0.053	103
	460	60	9	73	1170	IE2-	89	89	87.7	0.81	15.5	5.7	1.9	1.7	2.7		
IE2-WE1R 160 L6	400	50	11.0	108	970	IE2-	88.7	87.9	86.3	0.85	21	5.8	2.2	1.9	2.7	0.145	135
	460	60	11.0														
IE2-WE2R 160 L6	400	50	11.0	108	975	IE2-	88.9	88.8	87.0	0.81	22	6.8	2.7	2.4	3.1	0.166	155
	460	60	13	106	1175	IE2-	90.3	89.9	88.1	0.83	22	6.4	2.5	2.2	2.8		
IE2-WE1R 180 L6	400	50	15.0	147	975	IE2-	89.7	88.8	86.7	0.84	28.5	6.2	2.1	1.8	2.8	0.228	185
	460	60	16.5	134	1175	IE2-	90.2	89.8	88.4	0.85	27.0	7.3	2.2	1.9	2.7		
IE2-WE2R 180 L6	400	50	15	148	970	IE2-	89.7	88.8	87.8	0.83	29	5.6	2.3	1.7	2.6	0.166	157
	460	60	15	122	1175	IE2-	90.2	89.5	87.4	0.83	25	6.3	2.5	1.9	2.9		
IE2-WE1R 200 L6	400	50	18.5	180	980	IE2-	90.4	88.8	86.5	0.85	35	6.6	2.3	1.7	2.9	0.268	208
	460	60	22.0	179	1175	IE2-	91.7	90.1	88.5	0.85	35.5	6.6	2.2	1.8	2.7		
IE2-WE1R 200 LX6	400	50	22	214	980	IE2-	90.9	90.2	88.5	0.86	40.5	6.4	2.2	1.8	2.7	0.443	272
	460	60	25	202	1180	IE2-	91.7	91.2	90.0	0.86	40.0	6.4	2.2	1.8	2.7		
IE2-WE2R 200 LX6	400	50	22	215	975	IE2-	90.9	89.9	88.5	0.84	41.5	6.7	2.4	2.0	3.0	0.324	238
	460	60	25	202	1180	IE2-	91.7	90.8	89.5	0.86	40	6.6	2.3	1.9	2.9		
IE2-WE1R 225 M6	400	50	30	291	985	IE2-	92.0	91.5	90.0	0.86	54.5	7.3	2.5	2.2	2.9	0.825	365
	460	60	36	291	1182	IE2-	93.0	92.0	90.5	0.85	57.0	7.1	2.3	2.0	2.6		
IE2-WE2R 225 M6	400	50	30	294	975	IE2-	91.7	91.4	90.6	0.87	54.5	6.7	2.3	1.9	2.8	0.514	308
	460	60	25	201	1185	IE2-	91.7	90.8	88.1	0.86	40	8.2	2.9	2.4	3.7		
IE2-WE1R 250 M6	400	50	37	359	985	IE2-	92.2	91.7	90.7	0.85	68	6.4	2.7	1.8	2.4	1.28	480
	460	60	40	322	1185	IE2-	93.0	92.0	90.5	0.86	63	6.6	2.7	1.8	2.5		
IE2-WE2R 250 M6	400	50	37	361	979	IE2-	92.2	92.3	91.8	0.86	67.5	6.6	2.7	2.0	2.6	0.92	407
	460	60	40	324	1179	IE2-	93	93.4	91.8	0.86	63	6.7	2.7	2.1	2.6		
IE2-WE1R 280 S6	400	50	45	437	983	IE2-	93.0	92.7	92.4	0.87	80.5	6.5	2.2	1.7	2.4	1.48	560
	460	60	49	395	1185	IE2-	93.6	92.4	91.0	0.87	75.5	6.7	2.3	1.9	2.6		
IE2-WE1R 280 M6	400	50	55	531	990	IE2-	93.5	93.5	93.0	0.85	100	7.6	2.0	1.5	2.5	2.63	710
	460	60	64	514	1190	IE2-	94.1	93.5	93.0	0.84	102	8.0	2.1	1.6	2.7		
IE2-WE1R 315 S6	400	50	75	723	990	IE2-	93.9	93.7	93.5	0.87	133	7.8	1.9	1.5	2.5	3.33	804
	460	60	90	722	1190	IE2-	94.1	93.5	93.0	0.87	138	7.5	1.8	1.6	2.5		
IE2-WE1R 315 M6	400	50	90	868	990	IE2-	94.0	94.0	93.5	0.88	157	7.5	1.8	1.5	2.5	3.60	865
	460	60	99	794	1190	IE2-	94.1	94.0	93.5	0.87	152	8.0	2.1	1.6	2.6		
IE2-WE1R 315 MX6	400	50	110	1061	990	IE2-	94.3	94.3	94.0	0.87	194	7.5	1.8	1.4	2.3	6.67	1210
	460	60	110	883	1190	IE2-	95.0	94.6	94.2	0.87	167	8.3	2.0	1.7	2.6		
IE2-WE1R 315 MY6	400	50	132	1273	990	IE2-	94.6	94.3	94.0	0.87	231	7.5	1.9	1.4	2.2	6.67	1250
	460	60	145	1164	1190	IE2-	95.0	95.0	94.5	0.86	223	8.0	2.0	1.5	2.4		
IE2-WE1R 315 L6	400	50	160	1543	990	IE2-	94.8	94.5	93.5	0.88	277	7.5	2.0	1.5	2.4	8.60	1430
	460	60	175	1404	1190	IE2-	95.0	94.8	94.3	0.87	266	8.0	2.0	1.5	2.4		
IE2-WE1R 315 LX6	400	50	200	1929	990	IE2-	95.0	95.0	94.5	0.86	353	7.0	1.9	1.5	2.2	8.60	1460
	460	60	220	1766	1190	IE2-	95.0	95.0	94.5	0.86	338	7.0	1.9	1.5	2.3		
IE2-WE2R 355 M6	400	50	250	2402	994	IE2-	95.0	95.0	94.7	0.84	452	7.0	1.5	1.2	2.2	8.20	1850
	460	60	280	2241	1193	IE2-	95.0	94.5	93.5	0.83	446	8.0	1.7	1.3	2.5		
IE2-WE2R 355 MX6	400	50	315	3023	995	IE2-	95.2	95.2	95.2	0.86	555	7.0	1.3	1.1	2.2	12.1	2200
	460	60	330	2633	1197	IE2-	95.2	95.2	95.2	0.86	506	7.0	1.3	1.1	2.2		
IE2-WE2R 355 LY6	400	50	355	3407	995	IE2-	95.0	95.0	94.0	0.77	700	7.5	1.8	1.5	2.6	14.0	2400
	460	60	375	2997	1195	IE2-	95.0	94.5	93.5	0.76	652	8.0	1.9	1.6	2.8		

**Three-phase motors with squirrel-cage rotor, High Efficiency IE2**

with surface cooling, duty type S1, continuous duty  
for rated voltage, thermal class 155 (F), degree of protection IP 55, 50/60 Hz

Motor selection data															Design point 400 V, 50 Hz 460 V, 60 Hz		
Type	U <sub>B</sub> V	f <sub>B</sub> Hz	P <sub>B</sub> kW	M <sub>B</sub> Nm	n <sub>B</sub> rpm	η <sub>B</sub> IEC/EN 60034-2-1			cosφ <sub>B</sub> -	I <sub>B</sub> A	I <sub>K</sub> /I <sub>B</sub> -	M <sub>K</sub> /M <sub>B</sub> -	M <sub>S</sub> /M <sub>B</sub> -	M <sub>R</sub> /M <sub>B</sub> -	J kgm <sup>2</sup>	m kg	
						100 %	75 %	50 %									
Synchronous speed 750 rpm/900 rpm – 8-pole version																	
IE2-WE2R 71 G8	400	50	0.12	1.71	670	IE2-	39.8	39.8	31.9	0.54	0.73	2.10	1.80	1.80	2.00	0.0006	8.1
	460	60	0.14	1.62	825	IE2-	40.0	37	30.2	0.52	0.71	2.3	1.9	1.9	2.1		
IE2-WE2R 80 K8	400	50	0.18	2.49	690	IE2-	45.9	52.2	44.0	0.59	0.78	2.70	1.90	1.90	2.20	0.0013	10.5
	460	60	0.21	2.39	840	IE2-	46.0	55.2	48.3	0.61	0.75	2.9	1.5	1.5	2		
IE2-WE2R 80 G8	400	50	0.25	3.43	695	IE2-	50.6	50.4	42.5	0.56	1.12	3.0	2.3	2.3	2.5	0.00175	12
	460	60	0.3	3.41	840	IE2-	52.0	56.1	48.5	0.57	1.09	3	1.9	1.9	2.1		
IE2-WE2R 90 S8	400	50	0.37	5.05	700	IE2-	56.1	57.3	50.7	0.54	1.60	3.00	1.50	1.50	2.00	0.003	15
	460	60	0.44	4.94	850	IE2-	58.0	57.8	52.5	0.55	1.63	3	1.5	1.5	2		
IE2-WE2R 90 L8	400	50	0.55	7.56	695	IE2-	61.7	61.3	54.9	0.60	2.04	3.30	1.50	1.50	2.00	0.00375	18
	460	60	0.65	7.35	845	IE2-	66.0	66.4	61	0.57	2.1	3.1	1.4	1.4	1.9		
IE2-WE2R 100 L8	400	50	0.75	10.2	705	IE2-	66.2	64.5	58.7	0.60	2.90	3.10	1.50	1.50	2.00	0.00625	23
	460	60	0.9	10.11	850	IE2-	66.0	68.7	63	0.59	2.76	3.2	1.4	1.4	1.9		
IE2-WE1R 100 LY8	400	50	1.10	14.9	705	IE2-	70.8	71.2	67.6	0.67	3.25	4.00	2.00	2.00	2.40	0.009	28
	460	60	1.25	14.04	850	IE2-	75.5	76.9	72.7	0.67	3	4.2	1.7	1.7	2.2		
IE2-WE1R 112 MV8	400	50	1.50	20.46	700	IE2-	74.1	78.7	76.0	0.65	4.25	3.8	1.6	1.6	2.1	0.0155	48
	460	60	1.25	13.64	875	IE2-	75.5	77.6	72.7	0.54	3.63	3.8	2	1.9	2.9		
IE2-WE1R 132 M8	400	50	3.0	39.8	720	IE2-	82.7	83.0	81.3	0.74	7.1	3.9	1.6	1.3	1.9	0.0430	74
	460	60	3.6	39.5	870	-	84.2	84.5	83.0	0.75	7.2	3.6	1.4	1.2	1.8		
IE2-WE1R 160 M8	400	50	4.0	53.2	718	IE2-	84.2	83.7	81.9	0.72	9.5	4.6	1.6	***)	2.5	0.0530	86
	460	60	4.0														
IE2-WE1R 160 MX8	400	50	5.5	72.0	730	IE2-	86.9	86.6	84.1	0.72	12.5	4.8	2.1	1.8	2.6	0.1130	115
	460	60	6.6	72	875	-	87.8	87.2	84.6	0.74	12.7	4.9	2.0	1.6	2.4		
IE2-WE2R 160 MX8	400	50	5.5	73	715	IE2-	83.9	84.0	81.9	0.71	13.5	4.3	1.7	1.5	2.5	0.0530	103
	460	60	6.6	73	865	-	86.4	86.7	85.3	0.72	13.5	4.2	1.6	1.4	2.3		
IE2-WE1R 160 L8	400	50	7.5	99	725	IE2-	87.5	87.0	83.5	0.77	16	5.5	2.0	***)	2.8	0.1450	136
	460	60	7.5														

\*\*\*) upon request

### Three-phase motors with squirrel-cage rotor, High Efficiency IE2

with surface cooling, duty type S1, continuous duty  
for rated voltage, thermal class 155 (F), degree of protection IP 55, 50/60 Hz

Type	Motor selection data														Design point 400 V, 50 Hz 460 V, 60 Hz		
	U <sub>B</sub>	f <sub>B</sub>	P <sub>B</sub>	M <sub>B</sub>	n <sub>B</sub>	η <sub>B</sub>			cosφ <sub>B</sub>	I <sub>B</sub>	I <sub>A</sub> /I <sub>B</sub>	M <sub>A</sub> /M <sub>B</sub>	M <sub>G</sub> /M <sub>B</sub>	M <sub>K</sub> /M <sub>B</sub>	J	m	
	V	Hz	kW	Nm	rpm	IEC/EN 60034-2-1			-	A	-	-	-	-	kgm <sup>2</sup>	kg	
						100 %	75 %	50 %									
Synchronous speed 750 rpm/900 rpm – 8-pole version																	
IE2-WE1R 180 L8	400	50	11.0	144	727	IE2-	88.2	88.2	86.7	0.78	23	4.9	1.8	1.6	2.4	0.2280	175
	460	60	13.0	141	878	-	89.4	89.4	87.9	0.78	23.5	4.6	1.7	1.5	2.3		
IE2-WE2R 180 L8	400	50	11	144	730	IE2-	87.9	87.4	85.2	0.67	25.5	4.3	1.9	1.6	2.3	0.1660	157
	460	60	13														
IE2-WE1R 200 L8	400	50	15.0	197	727	IE2-	88.2	88.1	86.4	0.77	32	4.9	1.9	1.7	2.3	0.2680	200
	460	60	18.0	196	878	-	88.9	88.7	87.4	0.78	32.5	4.8	1.8	1.6	2.2		
IE2-WE1R 225 S8	400	50	18.5	242	730	IE2-	89.6	89.4	87.2	0.78	38	5.4	2.1	2.0	2.8	0.440	265
	460	60	22	239	880	-	89.9	89.6	87.5	0.79	39.0	5.2	2.0	1.9	2.7		
IE2-WE2R 225 S8	400	50	18.5	240	735	IE2-	90.7	90.7	89.4	0.8	37	6.1	2.1	1.9	2.9	0.514	305
	460	60	22	237	885	-	91.8	91.5	90.2	0.81	37.0	5.7	2	1.7	2.6		
IE2-WE1R 225 M8	400	50	22	287	733	IE2-	90.6	89.4	89.9	0.78	45	5.6	2.2	1.8	2.6	0.825	380
	460	60	33	356	885	-	91.5	91.0	89.5	0.78	58.0	5.6	2.1	1.8	2.4		
IE2-WE2R 225 M8	400	50	22	286	735	IE2-	90.3	90.3	88.7	0.77	45.5	6.1	2.2	2.0	2.9	0.514	307
	460	60	26	281	883	-	91.3	91.1	89.6	0.79	45.0	5.9	2.1	1.8	2.7		
IE2-WE1R 250 M8	400	50	30	389	737	IE2-	92.1	92.4	91.6	0.79	59.5	5.0	2.0	1.6	2.1	1.350	480
	460	60	37	398	887	-	91.7	91.5	90.0	0.80	63.5	4.7	1.7	1.3	1.8		
IE2-WE2R 250 M8	400	50	30	391	732	IE2-	91.5	91.7	90.9	0.77	61.5	5.6	2.3	2.0	2.5	0.950	405
	460	60	36	391	880	-	91.9	92.3	91.8	0.78	63.0	5.3	2.1	1.8	2.3		
IE2-WE1R 280 S8	400	50	37	479	737	IE2-	92.2	92.1	90.9	0.79	73.5	6.0	2.3	1.9	2.5	1.55	550
	460	60	45	484	888	-	91.7	91.2	89.0	0.79	78.0	6.0	2.1	1.6	2.2		
IE2-WE1R 280 M8	400	50	45	581	740	IE2-	92.7	92.7	92.0	0.79	88.5	6.7	1.8	1.5	2.5	2.63	690
	460	60	45														
IE2-WE1R 315 S8	400	50	55	710	740	IE2-	92.2	92.2	92.1	0.80	108	6.3	1.8	1.5	2.3	2.63	690
	460	60	66	708	890	-	93	93	92.5	0.8	111	5.8	1.6	1.4	2		
IE2-WE1R 315 M8	400	50	75	968	740	IE2-	93.5	93.5	93.0	0.81	143	6.0	1.8	1.5	2.1	3.6	880
	460	60	75														
IE2-WE1R 315 MX8	400	50	90	1161	740	IE2-	92.1	91.6	90.1	0.81	174	6.0	1.9	***)	2.2	6	1050
	460	60	90														
IE2-WE1R 315 MY8	400	50	110	1420	740	IE2-	93.8	93.3	91.2	0.81	209	6.5	2.1	***)	2.4	6.76	1250
	460	60	10														
IE2-WE1R 315 L8	400	50	132	1704	740	IE2-	94.4	94.0	93.5	0.83	243	7.5	2.2	1.8	2.5	8.71	1430
	460	60	132														
IE2-WE1R 315 LX8	400	50	160	2065	740	IE2-	94.2	94.2	93.8	0.80	306	7.2	2.2	1.8	2.5	8.71	1430
	460	60	190	2039	890	-	94.3	94.3	94.0	0.81	312	7.0	2.1	1.7	2.3		
IE2-WE2R 355 M8	400	50	200	2571	743	IE2-	94.7	94.1	91.5	0.77	396			***)		9.5	1850
	460	60	200														
IE2-WE2R 355 MX8	400	50	250	3205	745	IE2-	95.8	95.8	95.5	0.83	454	7.0	1.2	1.0	2.6	13.4	2200
	460	60	250														
IE2-WE2R 355 LY8	400	50	280	3599	743	IE2-	94.8	94.1	91.5	0.78	547			***)		15.8	2400
	460	60	280														

\*\*\*) upon request