BROCHURE

IE5 SynRM motor and optimized ACS880 drive packages

Best-in-class performance, energy efficiency and reliability

The energy efficient motor and drive technology with uncompromised performance is already available, tested, and proven. ABB SynRM motor and drive packages offer a dramatic improvement in energy efficiency, which if adopted globally will help reduce energy use and fight against climate change.

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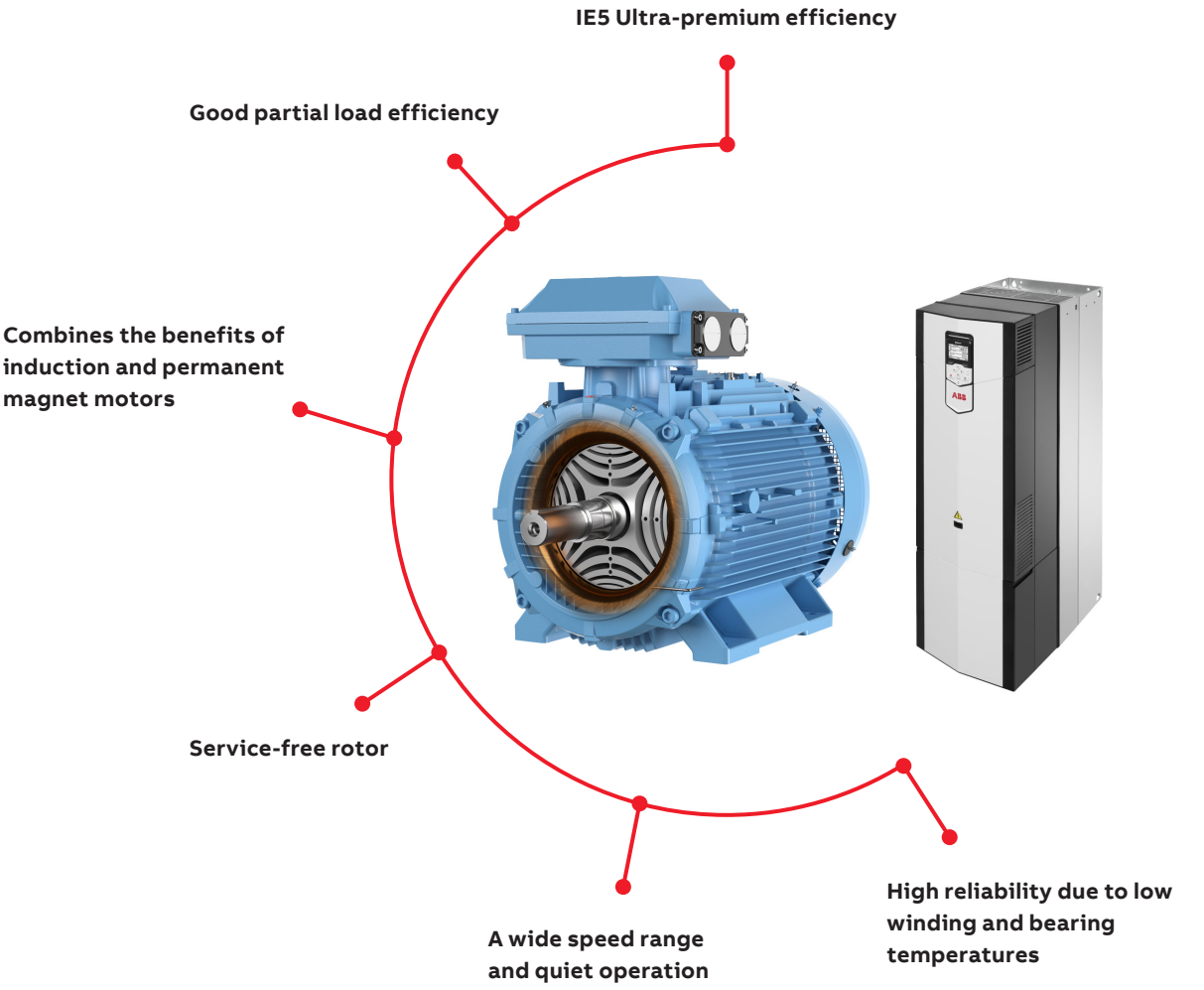
Energy efficiency. Usability. Productivity
Everything counts

ABB's SynRM motor-drive package offers optimized pairs of motors and drives. This matching means excellent control performance in all applications, an easy start-up process and one number to call in case you need any support.

The core idea of a synchronous reluctance motor (SynRM) is that the rotor has no windings or magnets, just electric steel plates stacked together to form a rotor package.

Unlike in an induction motor, a SynRM rotor has no induced current and thus no losses. This makes SynRM the perfect combination of simplicity and efficiency.



SynRM motor benefits

Synchronous reluctance technology combines the performance of the permanent magnet motor with the simplicity and service-friendliness of an induction motor. Minimizing motor failures and downtime ensures the most reliable, energy efficient, and long-lasting performance.

- **Ultra-premium IE5 efficiency**: Significantly reduces energy consumption and emissions, aligning with sustainability goals.
- **Improved reliability and lifetime**: Lower winding and bearing temperatures extend motor life and reduce maintenance needs.
- **Magnet-free design**: Enhances motor reliability and minimizes service requirements. Reduces resource consumption in manufacturing and creates less waste.
- **Wide speed range** for constant torque applications and 100% torque down to zero speed.
- **Quiet operation**: reduces noise in the plant for a better working environment.
- **'Drop-in' replacement** for regular motors with IEC standard mountings.
- Compact versions offer a **cost-effective** way to reduce machine footprint and weight.

Scan the QR code or click here to learn more:

Uncompromised productivity with ACS880 industrial drives

Cover all your possibilities with our all-compatible ACS880 industrial drives designed to tackle any of your motor-driven applications, in any industries, whatever the power range.

ACS880 drive is compatible with virtually all of your processes, automation systems, users and business requirements. Our benchmark of performance, expertise and quality offered in a range of wall-mounted drives, drive modules and cabinet-built drives.

Scan the QR code or click here to learn more:

10 steps towards uncompromized productivity

1. **Robust, long lifetime** design for maximum reliability even in harsh conditions with 9-year maintenance interval.
2. **Flexibility in hardware and software** enabling superior customization to meet your needs.
3. Optimal match for various needs with wide power and voltage range **from 0.55 to 6000 kW @ 230-690 V.**
4. Readily available application- and industry-specific solutions.
5. Precise control for all common motor types thanks to ABB's **Direct Torque Control (DTC)**.
6. Communication with all major automation networks.
7. Safety of people, machinery and processes with Drive-based functional safety.
8. Built-in features and extensive support ensure simplicity from selection to commissioning.
9. Carefree operation and maintenance through reliability, support and tools.
10. Energy and investment savings with ultra-low harmonic and regenerative drives.

ABB SynRM motor and drive package

Best-in-class performance, energy efficiency and reliability

Get everything you need from a single supplier
Delivered by the same supplier, the package is easy to select and purchase, with service and technical support available from a single point of contact.

High efficiency reduces energy use, saving money and cutting emissions
IE5 SynRM motors reduce energy losses by 40% compared to IE3 motors. Additionally, transitioning from a traditional fixed-speed drive system to a variable-speed drive system can reduce energy consumption and energy bills by up to 80%. At the same time, emissions are dramatically reduced.

For all applications
Optimize any operation with our SynRM and drive package. From pumps and fans, our drives provide full SynRM motor control up to the highest performance constant torque applications. Perfect for diverse industrial demands.

Safe choice even in most demanding conditions
ABB SynRM motors are fully tested with ABB VSDs to ensure that they work together seamlessly. IE5 SynRM Increased safety motor and ACS880 drive package ensures the highest process safety even in potentially explosive atmospheres.

Ideal package for high performance
ACS880 has a high performance motor control and possibility for position control. This combined with SynRM motor's low inertia rotor design makes this an ideal combination for very dynamic applications requiring fast accelerations or decelerations.

Furthermore, ACS880 Direct Torque Control (DTC) gives the best in class open-loop performance down to the lowest speeds. As the SynRM motor is synchronous by nature and thus having no slip, the open-loop speed accuracy is typically even better with SynRM motors compared to induction motors.

Lifecycle support
ABB supports customers over the product's lifecycle, helping them maximize uptime and performance through condition-based, preventive maintenance.

This brochure provides list of optimized ACS880-01 and SynRM motor packages making it easy to choose the perfect match and shift towards energy-saving.

IE5 motor-drive packages with

IE5 SynRM optimized ACS880-01 modules

Output (kW)	Motor type	Product ID	Current I_N (A)	Torque T_N (Nm)	Overloadability at nominal speed T_{OL}/T_N	Weight m (kg)	Suggested ACS880 SynRM package frequency converter for light duty (no overload)*
3000 r/min (100 Hz)			**400 V network voltage, 370-380V motor voltage**				
5.5	M3BL 132SMA 4	3GBL132217-••C	12.1	17.5	2.1	63	ACS880-01-14A3-3
7.5	M3BL 132SMB 4	3GBL132227-••C	16.5	23.9	2	63	ACS880-01-17A7-3
11	M3BL 132SMC 4	3GBL132237-••C	24.5	35.0	2.5	69	ACS880-01-25A5-3
15	M3BL 132SMD 4	3GBL132247-••C	32.9	47.8	2.1	69	ACS880-01-035A-3
11	M3BL 160MLA 4	3GBL162417-••C	25.5	35.0	1.8	133	ACS880-01-25A5-3
15	M3BL 160MLB 4	3GBL162427-••C	34.6	48.0	1.6	133	ACS880-01-035A-3
18.5	M3BL 160MLC 4	3GBL162437-••C	43.0	59.0	1.7	133	ACS880-01-043A-3
22	M3BL 180MLB 4	3GBL182427-••C	50.0	70.0	1.5	190	ACS880-01-050A-3
30	M3BL 200MLC 4	3GBL202437-••C	68.9	95.6	1.5	277	ACS880-01-069A-3
37	M3BL 200MLD 4	3GBL202447-••C	84.5	118	1.5	277	ACS880-01-085A-3
45	M3BL 225SMB 4	3GBL222227-••C	99.8	143	1.5	330	ACS880-01-103A-3
55	M3BL 250SMA 4	3GBL252217-••C	123	175	1.5	396	ACS880-01-123A-3
75	M3BL 250SMB 4	3GBL252227-••C	167	239	1.5	396	ACS880-01-173A-3
90	M3BL 250SMC 4	3GBL252237-••C	198	286	1.5	454	ACS880-01-202A-3
1500 r/min (50 Hz)			**400 V network voltage, 370-380V motor voltage**				
5.5	M3BL 132SMA 4	3GBL132213-••C	11.7	35.0	2.1	85	ACS880-01-14A3-3
7.5	M3BL 132SMB 4	3GBL132223-••C	15.7	47.8	2	85	ACS880-01-17A7-3
11	M3BL 160MLA 4	3GBL162413-••C	24.2	70.0	1.8	160	ACS880-01-25A5-3
15	M3BL 160MLB 4	3GBL162423-••C	32.1	95.5	1.8	177	ACS880-01-035A-3
18.5	M3BL 180MLB 4	3GBL182423-••C	42.8	118	1.5	222	ACS880-01-043A-3
22	M3BL 180MLC 4	3GBL182433-••C	49.4	140	1.5	222	ACS880-01-050A-3
30	M3BL 200MLB 4	3GBL202423-••C	65.0	191	1.5	304	ACS880-01-069A-3
37	M3BL 225SMB 4	3GBL222223-••C	79.3	236	1.5	385	ACS880-01-085A-3
45	M3BL 225SMC 4	3GBL222233-••C	98.5	286	1.5	350	ACS880-01-103A-3
55	M3BL 250SMB 4	3GBL252223-••C	117	350	1.5	454	ACS880-01-123A-3
75	M3BL 280SMA 4	3GBL282213-••C	166	478	2.2	639	ACS880-01-173A-3
90	M3BL 280SMB 4	3GBL282223-••C	199	573	2	639	ACS880-01-202A-3
110	M3BL 280SMC 4	3GBL282233-••C	241	699	2.1	697	ACS880-01-245A-3
110	M3BL 315SMA 4	3GBL312213-••C	243	702	2.2	873	ACS880-01-245A-3
132	M3BL 315SMB 4	3GBL312223-••C	290	842	2.2	925	ACS880-01-290A-3
160	M3BL 315SMC 4	3GBL312233-••C	343	1018	2	965	ASC880-01-343A-3
200	M3BL 315MLA 4	3GBL312413-••C	427	1272	2	1116	ACS880-01-427A-3
250	M3BL 315LKA 4	3GBL312813-••C	552	1591	2.2	1357	ACS880-04/07-585A-3
315	M3BL 315LKC 4	3GBL312833-••C	662	2006	1.9	1533	ACS880-04/07-725A-3 **
1000 r/min (33 Hz)			**400 V network voltage, 370-380V motor voltage**				
7.5	M3BL 160MLA 4	3GBL162412-••C	16.5	72.0	1.9	160	ACS880-01-17A7-3
11	M3BL 160MLB 4	3GBL162422-••C	24.1	105	1.9	177	ACS880-01-25A5-3
15	M3BL 180MLC 4	3GBL182432-••C	34.1	143	1.5	216	ACS880-01-035A-3
18.5	M3BL 200MLA 4	3GBL202412-••C	39.9	177	2.3	304	ACS880-01-043A-3
22	M3BL 200MLB 4	3GBL202422-••C	47.0	210	2.1	304	ACS880-01-050A-3
30	M3BL 225SMB 4	3GBL222222-••C	64.7	287	1.5	348	ACS880-01-069A-3
37	M3BL 250SMA 4	3GBL252212-••C	80.5	353	1.7	428	ACS880-01-085A-3
45	M3BL 280SMA 4	3GBL282212-••C	98.6	430	2.3	639	ACS880-01-103A-3
55	M3BL 280SMB 4	3GBL282222-••C	119	526	2	639	ACS880-01-123A-3
75	M3BL 280SMC 4	3GBL282232-••C	160	715	1.9	697	ACS880-01-173A-3
75	M3BL 315SMA 4	3GBL312212-••C	164	717	2.1	873	ACS880-01-173A-3
90	M3BL 315SMB 4	3GBL312222-••C	199	859	2.1	925	ACS880-01-202A-3
110	M3BL 315SMC 4	3GBL312232-••C	241	1051	2	965	ACS880-01-245A-3
132	M3BL 315MLA 4	3GBL312412-••C	278	1261	1.8	1116	ACS880-01-290A-3
160	M3BL 315LKA 4	3GBL312812-••C	341	1527	2	1357	ASC880-01-343A-3
200	M3BL 315LKC 4	3GBL312832-••C	416	1910	2	1533	ACS880-01-427A-3

*Consult ABB for motor and drive dimensioning for applications with other load characteristics. Protection class IP55 – Self cooling IC 411 – Insulation class F, temperature rise class B. Performance values apply with ACS880 drive supply.
** 309 kW with ACS880-04 or -07-650A-3.

Certified safety with IE5 SynRM Increased Safety motors and Drives in hazardous areas

ABB IE5 SynRM Increased Safety motors for Zones 1 and 2 are fully tested and certified for explosive atmospheres with drives. When purchasing a motor and a drive together from ABB, you save time and money. There is no need for additional testing and certification.

ABB is the first manufacturer in the world to offer the combination of IE5 ultra-premium efficiency and Increased safety.

SynRM Increased Safety motors are certified to ATEX and IECEx requirements and certified for use with drives. IE5 SynRM Increased Safety motors provide all the benefits of SynRM motors such as ultra-premium efficiency, higher reliability and reduced maintenance.

The new SynRM variant is manufactured in two versions – Increased Safety and Dust ignition proof. Increased Safety motors are designed to eliminate hot surfaces and sparking during normal operation, ensuring a safer environment. Dust ignition proof motors feature special seals that prevent dust from entering the enclosure, enhancing their reliability in dusty conditions.

Safety-certified drives for sustainable, efficient and safe operations.

ACS880 drives have SIL 3 integrated safety including safe torque off (STO) for machine, production and personnel safety.

Drives with integrated safety functions for use in protecting motors in explosive atmospheres are available with ATEX certified protective functions. The safety functions for explosive atmospheres include interfaces to PTC/Pt100 sensors for implementing overtemperature protection for a motor.

Scan the QR code or click here to learn more:

IE5 motor-drive packages with

IE5 SynRM Increased Safety Ex eb (zone 1) & optimized ACS880-01 modules

Output (kW)	Motor type	Product ID	Current I_N (A)	Torque T_N (Nm)	Weight m (kg)	Suggested ACS880 SynRM package frequency converter for light duty (no overload)*
3000 r/min (100 Hz)		**400 V network voltage, 370-380V motor voltage**				
5.5	M3HL 132SMA 4	3GHL132217-••C	12.1	17.5	63	ACS880-01-14A3-3
7.5	M3HL 132SMB 4	3GHL132227-••C	16.5	23.9	63	ACS880-01-17A7-3
11	M3HL 132SMC 4	3GHL132237-••C	24.5	35.0	69	ACS880-01-25A5-3
11	M3HL 160MLA 4	3GHL162417-••C	25.5	35.0	133	ACS880-01-25A5-3
15	M3HL 132SMD 4	3GHL132247-••C	32.9	47.8	69	ACS880-01-035A-3
15	M3HL 160MLB 4	3GHL162427-••C	34.6	48.0	133	ACS880-01-035A-3
18.5	M3HL 160MLC 4	3GHL162437-••C	43.0	59.0	133	ACS880-01-043A-3
22	M3HL 180MLB 4	3GHL182427-••C	50.0	70.0	190	ACS880-01-050A-3
30	M3HL 200MLC 4	3GHL202437-••C	68.9	95.6	277	ACS880-01-069A-3
37	M3HL 200MLD 4	3GHL202447-••C	84.5	118	277	ACS880-01-085A-3
45	M3HL 225SMB 4	3GHL222227-••C	99.8	143	330	ACS880-01-103A-3
55	M3HL 250SMA 4	3GHL252217-••C	123	175	396	ACS880-01-123A-3
75	M3HL 250SMB 4**	3GHL252227-••C	167	239	396	ACS880-01-173A-3
90	M3HL 250SMC 4**	3GHL252237-••C	198	287	454	ACS880-01-202A-3
1500 r/min (50 Hz)		**400 V network voltage, 370-380V motor voltage**				
5.5	M3HL 132SMA 4	3GHL132213-••C	11.7	35.0	85	ACS880-01-14A3-3
7.5	M3HL 132SMB 4	3GHL132223-••C	15.7	47.8	85	ACS880-01-17A7-3
11	M3HL 160MLA 4	3GHL162413-••C	24.2	70.0	160	ACS880-01-25A5-3
15	M3HL 160MLB 4	3GHL162423-••C	32.1	95.5	177	ACS880-01-035A-3
18.5	M3HL 180MLB 4	3GHL182423-••C	42.8	118	222	ACS880-01-043A-3
22	M3HL 180MLC 4	3GHL182433-••C	49.4	140	222	ACS880-01-050A-3
30	M3HL 200MLB 4	3GHL202423-••C	65.0	191	304	ACS880-01-069A-3
37	M3HL 225SMB 4	3GHL222223-••C	79.3	236	385	ACS880-01-085A-3
45	M3HL 225SMC 4	3GHL222233-••C	98.5	286	350	ACS880-01-103A-3
55	M3HL 250SMB 4	3GHL252223-••C	117	350	454	ACS880-01-123A-3
75	M3HL 280SMA 4	3GHL282213-••C	166	478	639	ACS880-01-173A-3
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110	M3HL 280SMC 4	3GHL282233-••C	241	699	697	ACS880-01-245A-3
110	M3HL 315SMA 4	3GHL312213-••C	243	702	873	ACS880-01-245A-3
132	M3HL 315SMB 4	3GHL312223-••C	290	842	925	ACS880-01-290A-3
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250	M3HL 315LKA 4	3GHL312813-••C	552	1591	1357	ACS880-04/07-585A-3
315	M3HL 315LKC 4	3GHL312833-••C	662	2006	1533	ACS880-04/07-725A-3***
1000 r/min (33 Hz)		**400 V network voltage, 370-380V motor voltage**				
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22	M3HL 200MLB 4	3GHL202422-••C	47.0	210	304	ACS880-01-050A-3
30	M3HL 225SMB 4	3GHL222222-••C	64.7	287	348	ACS880-01-069A-3
37	M3HL 250SMA 4	3GHL252212-••C	80.5	353	428	ACS880-01-085A-3
45	M3HL 280SMA 4	3GHL282212-••C	98.6	430	639	ACS880-01-103A-3
55	M3HL 280SMB 4	3GHL282222-••C	119	526	639	ACS880-01-123A-3
75	M3HL 280SMC 4	3GHL282232-••C	160	715	697	ACS880-01-173A-3
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110	M3HL 315SMC 4	3GHL312232-••C	241	1051	965	ACS880-01-245A-3
132	M3HL 315MLA 4	3GHL312412-••C	278	1261	1116	ACS880-01-290A-3
160	M3HL 315LKA 4	3GHL312812-••C	341	1527	1357	ASC880-01-343A-3
200	M3HL 315LKC 4	3GHL312832-••C	416	1910	1533	ACS880-01-427A-3

* Consult ABB for motor and drive dimensioning for applications with other load characteristics. Protection class IP55 – Self cooling IC 411 – Insulation class F, temperature rise class B. Performance values apply with ACS880 drive supply.
** Available from 2025.
*** 309 kW with ACS880-04 or -07-650A-3.

IE5 motor-drive packages with

IE5 SynRM Increased Safety Ex ec (zone 2) & optimized ACS880-01 modules

Output (kW)	Motor type	Product ID	Current I_N (A)	Torque T_N (Nm)	Weight m (kg)	Suggested ACS880 SynRM package frequency converter for light duty (no overload)*
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7.5	M3GL 132SMB 4	3GGL132227-••C	16.5	23.9	63	ACS880-01-17A7-3
11	M3GL 132SMC 4	3GGL132237-••C	24.5	35.0	69	ACS880-01-25A5-3
11	M3GL 160MLA 4	3GGL162417-••C	25.5	35.0	133	ACS880-01-25A5-3
15	M3GL 132SMD 4	3GGL132247-••C	32.9	47.8	69	ACS880-01-035A-3
15	M3GL 160MLB 4	3GGL162427-••C	34.6	48.0	133	ACS880-01-035A-3
18.5	M3GL 160MLC 4	3GGL162437-••C	43.0	59.0	133	ACS880-01-043A-3
22	M3GL 180MLB 4	3GGL182427-••C	50.0	70.0	190	ACS880-01-050A-3
30	M3GL 200MLC 4	3GGL202437-••C	68.9	95.6	277	ACS880-01-069A-3
37	M3GL 200MLD 4	3GGL202447-••C	84.5	118	277	ACS880-01-085A-3
45	M3GL 225SMB 4	3GGL222227-••C	99.8	143	330	ACS880-01-103A-3
55	M3GL 250SMA 4	3GGL252217-••C	123	175	396	ACS880-01-123A-3
75	M3GL 250SMB 4	3GGL252227-••C**	167	239	396	ACS880-01-173A-3
90	M3GL 250SMC 4	3GGL252237-••C**	198	286	454	ACS880-01-202A-3
1500 r/min (50 Hz)		**400 V network voltage, 370-380V motor voltage**				
5.5	M3GL 132SMA 4	3GGL132213-••C	11.7	35.0	85	ACS880-01-14A3-3
7.5	M3GL 132SMB 4	3GGL132223-••C	15.7	47.8	85	ACS880-01-17A7-3
11	M3GL 160MLA 4	3GGL162413-••C	24.2	70.0	160	ACS880-01-25A5-3
15	M3GL 160MLB 4	3GGL162423-••C	32.1	95.5	177	ACS880-01-035A-3
18.5	M3GL 180MLB 4	3GGL182423-••C	42.8	118	222	ACS880-01-043A-3
22	M3GL 180MLC 4	3GGL182433-••C	49.4	140	222	ACS880-01-050A-3
30	M3GL 200MLB 4	3GGL202423-••C	65.0	191	304	ACS880-01-069A-3
37	M3GL 225SMB 4	3GGL222223-••C	79.3	236	385	ACS880-01-085A-3
45	M3GL 225SMC 4	3GGL222233-••C	98.5	286	350	ACS880-01-103A-3
55	M3GL 250SMB 4	3GGL252223-••C	117	350	454	ACS880-01-123A-3
75	M3GL 280SMA 4	3GGL282213-••C	166	478	639	ACS880-01-173A-3
90	M3GL 280SMB 4	3GGL282223-••C	199	573	639	ACS880-01-202A-3
110	M3GL 280SMC 4	3GGL282233-••C	241	699	697	ACS880-01-245A-3
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132	M3GL 315SMB 4	3GGL312223-••C	290	842	925	ACS880-01-290A-3
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1000 r/min (33 Hz)		**400 V network voltage, 370-380V motor voltage**				
7.5	M3GL 160MLA 4	3GGL162412-••C	16.5	72.0	160	ACS880-01-17A7-3
11	M3GL 160MLB 4	3GGL162422-••C	24.1	105	177	ACS880-01-25A5-3
15	M3GL 180MLC 4	3GGL182432-••C	34.1	143	216	ACS880-01-035A-3
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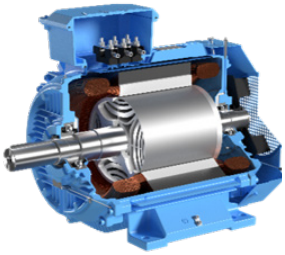
22	M3GL 200MLB 4	3GGL202422-••C	47.0	210	304	ACS880-01-050A-3
30	M3GL 225SMB 4	3GGL222222-••C	64.7	287	348	ACS880-01-069A-3
37	M3GL 250SMA 4	3GGL252212-••C	80.5	353	428	ACS880-01-085A-3
45	M3GL 280SMA 4	3GGL282212-••C	98.6	430	639	ACS880-01-103A-3
55	M3GL 280SMB 4	3GGL282222-••C	119	526	639	ACS880-01-123A-3
75	M3GL 280SMC 4	3GGL282232-••C	160	715	697	ACS880-01-173A-3
75	M3GL 315SMA 4	3GGL312212-••C	164	717	873	ACS880-01-173A-3
90	M3GL 315SMB 4	3GGL312222-••C	199	859	925	ACS880-01-202A-3
110	M3GL 315SMC 4	3GGL312232-••C	241	1051	965	ACS880-01-245A-3
132	M3GL 315MLA 4	3GGL312412-••C	278	1261	1116	ACS880-01-290A-3
160	M3GL 315LKA 4	3GGL312812-••C	341	1527	1357	ASC880-01-343A-3
200	M3GL 315LKC 4	3GGL312832-••C	416	1910	1533	ACS880-01-427A-3

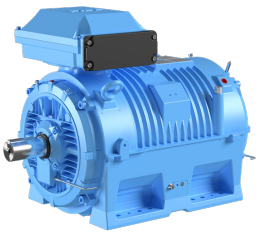
* Consult ABB for motor and drive dimensioning for applications with other load characteristics. Protection class IP55 – Self cooling IC 411 – Insulation class F, temperature rise class B. Performance values apply with ACS880 drive supply.
** Available from 2025.
*** 309 kW with ACS880-04 or -07-650A-3.

ABB SynRM motors and drive portfolio
For diverse industrial demands

IE5 & High-output Synchronous reluctance motors
Synchronous reluctance technology combines the performance of the permanent magnet motor with the simplicity and service-friendliness of an induction motor. Reach ultra-premium efficiency with IE5, while the high-output versions provide compact and cost-effective solutions.



IE5 SynRM Increased safety motors
Enable you to save energy and cut emissions while keeping your people and equipment safe in hazardous areas.
- IECEx and ATEX certified.
- Increased safety motors Ex eb and Ex ec.
- Dust ignition proof motors Ex t.



Liquid-cooled SynRM motors up to IE5
Offer increased efficiency and power density without size increase, merging the benefits of liquid cooling and SynRM technologies in a new motor design.

Industrial drives
ACS880 drive is compatible with virtually all processes, automation systems, users and business requirements in any industries what ever the power range. Offered in a series of wall-mounted drives, drive modules and cabinet-built drives.

Machinery drives
Designed to offer high performance, adaptability and reliable operation with integrated functional safety to machine builders.

General purpose drives
With all essential features built-in, intuitive user interface for quick drive setup and use helping you save and manage energy.

Industry specific drives for HVACR and Water
Dedicated drive solutions for specific industries with purpose-designed software features for added value for your business.

For more information, please contact your local ABB representative or visit

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