

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10
working
days

20
working
days

On
request

Special versions – SIMOTICS GP Standard Motors

Aluminum series 1LA7/5/9, 1LP7/5, 1PP7/5

Selection and ordering data

Options

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)													
		Motor version	Motor type (alum.)	Motor type – Frame size													
				63	71	80	90	100	112	132	160	180	200	225			
		IE2/NEMA Energy Efficient	1LA9	1LA9													
		IE1	1LA7/1LA5	1LA7							1LA5						
			1LA9	1LA9 with increased output													
			1PP7/1PP5	1PP7							1PP5						
			1LP7/1LP5	1LP7							1LP5						
		Pole-changing	1LA7/1LA5	1LA7							1LA5						
		For converter-fed operation only	1LA7/1LA5						1LA7			1LA5					
		1PP -Z	Motor version	Motor type	Frame size		63	71	80	90	100	112	132	160	180	200	225
		1L -Z															
Marine version – Basic version¹⁾																	
Without type test certificate according to ABS 50 °C/ CCS 45 °C/RINA 45 °C, temperature class 155 (F) used according to 155 (F) (if acceptance test certificate 3.1 according to EN 10204 is required, this must be ordered with order code B02) ²⁾	E00	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to GL (Germanischer Lloyd), Germany, CT 45 °C, temperature class 155 (F), used according to 155 (F) ³⁾	E11	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to LR (Lloyds Register), Great Britain, CT 45 °C, temperature class 155 (F), used according to 155 (F) ³⁾	E21	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to BV (Bureau Veritas), France, CT 45 °C, temperature class 155 (F), used according to 155 (F) ³⁾	E31	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to RS (Russian Maritime Register of Shipping), Russia, CT 45 °C, temperature class 155 (F), used according to 155 (F) ³⁾	E46 <i>New!</i>	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to DNV (Det Norske Veritas), Norway, CT 45 °C, temperature class 155 (F), used according to 155 (F) ³⁾	E51	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Marine version – Acceptance/certification																	
Individual acceptance by marine classification society	E10	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Type test with warm run for horizontal motors, with acceptance ⁴⁾	F83	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Type test with warm run for vertical motors, with acceptance ⁴⁾	Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

O. R. Possible on request

✓ With additional charge

¹⁾ Motor for use in shipping for higher ambient temperature and/or used as 155 (F) according to 130 (B), order with details in plain text. The order codes for the basic marine version (E00, E11, E21, E31, E51) cannot be combined with each other. For the 1LA9 motor series with increased output, for order codes E11, E31 and E51 derating of 4 % is required and for order codes E00 and E21 derating of 8 % is required.

²⁾ The delivery time for the factory test certificate may differ from the delivery time for the motor.

³⁾ For 1LP7 and 1LP5 motors, certification is possible on request in accordance with the classification societies GL, LR, BV, RS and DNV.

⁴⁾ Option or plain text data only necessary for one motor when ordering several motors of the same type.

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10 working days	20 working days	On request
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Special versions – SIMOTICS SD Standard Motors
Cast-iron series 1LA6, 1LG4/6, 1LP4, 1PP4

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)																			
		Motor version	Motor type (cast-iron)	Motor type – Frame size																			
				100	112	132	160	180	200	225	250	280	315										
1L.....-Z		IE2/NEMA Energy Efficient	1LG6							1LG6 ¹⁾													
		IE3	1LG6																			1LG6 ¹⁾	
		IE1	1LA6/1LG4	1LA6								1LG4											
			1PP4									1PP4											
			1LP4									1LP4											
		Pole-changing	1LG4									1LG4											
For converter-fed operation only	1LG6									1LG6													
1L.....-Z		Motor version	Motor type	Frame size	100	112	132	160	180	200	225	250	280	315									
Marine version – Basic version ²⁾																							
Without type test certificate according to ABS 50 °C/ CCS 45 °C/RINA 45 °C, temperature class 155 (F) used according to 155 (F) (if acceptance test certificate 3.1 according to EN 10204 is required, this must be ordered with order code B02) ³⁾		E00	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to GL (Germanischer Lloyd), Germany, CT 45 °C, temperature class 155 (F), used according to 155 (F) ⁴⁾		E11	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to LR (Lloyds Register), Great Britain, CT 45 °C, temperature class 155 (F), used according to 155 (F) ⁴⁾		E21	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to BV (Bureau Veritas), France, CT 45 °C, temperature class 155 (F), used according to 155 (F) ⁴⁾		E31	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to RS (Russian Maritime Register of Shipping), Russia, CT 45 °C, temperature class 155 (F), used according to 155 (F) ⁴⁾		E46 <i>New!</i>	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to DNV (Det Norske Veritas), Norway, CT 45 °C, temperature class 155 (F), used according to 155 (F) ⁴⁾		E51	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Marine version – Acceptance/certification																							
Individual acceptance by marine classification society		E10	All	All	–	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Type test with warm run for horizontal motors, with acceptance ⁵⁾		F83	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Type test with warm run for vertical motors, with acceptance ⁵⁾		Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	

O. R. Possible on request
 ✓ With additional charge
 – Not possible

1) Identically priced predecessor type for 2-pole motors 1LG6...2AA../1LG6...2AB.. or 4-pole motors 1LG6...4AA.. to be ordered using options for marine certificates. For increased output of motors 1LG6 ■■■-■M■ .. from 160 kW to 315 kW, a marine version is not possible.
 2) Motor for use in shipping for higher ambient temperature and/or used as 155 (F) according to 130 (B), order with details in plain text. The order codes for the basic marine version (E00, E11, E21, E31, E51) cannot be combined with each other.
 3) The delivery time for the factory test certificate may differ from the delivery time for the motor.
 4) For 1LP4 motors, certification is possible on request in accordance with the classification societies GL, LR, BV, RS and DNV.
 5) Option or plain text data only necessary for one motor when ordering several motors of the same type.

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10 working days	20 working days	On request
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Special versions – SIMOTICS XP Explosion-Proof Motors

Aluminum series 1MA7

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)										
		Motor version	Motor type (alum.)	Motor type – Frame size										
		Zone 1 Ex e II	1MA7	63	71	80	90	100	112	132	160	180	200	225
1MA7 -Z		Motor version	Motor type	63	71	80	90	100	112	132	160	180	200	225
Marine version – Basic version ¹⁾														
Without type test certificate according to ABS 50 °C/ CCS 45 °C/RINA 45 °C, temperature class 155 (F) used according to 155 (F) (if acceptance test certificate 3.1 according to EN 10204 is required, this must be ordered with order code B02) ²⁾	E00	All	All	✓	✓	✓	✓	✓	✓	✓	✓			
With type test certificate according to GL (Germanischer Lloyd), Germany, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E11	All	All	✓	✓	✓	✓	✓	✓	✓	✓			
With type test certificate according to LR (Lloyds Register), Great Britain, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E21	All	All	✓	✓	✓	✓	✓	✓	✓	✓			
With type test certificate according to BV (Bureau Veritas), France, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E31	All	All	✓	✓	✓	✓	✓	✓	✓	✓			
With type test certificate according to RS (Russian Maritime Register of Shipping), Russia, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E46 <i>New!</i>	All	All	✓	✓	✓	✓	✓	✓	✓	✓			
With type test certificate according to DNV (Det Norske Veritas), Norway, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E51	All	All	✓	✓	✓	✓	✓	✓	✓	✓			
Marine version – Acceptance/certification														
Individual acceptance by marine classification society	Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.		
Type test with warm run for horizontal motors, with acceptance ³⁾	Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.		
Type test with warm run for vertical motors, with acceptance ³⁾	Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.		

O. R. Possible on request
 ✓ With additional charge

¹⁾ Motor for use in shipping for higher ambient temperature and/or used as 155 (F) according to 130 (B), order with details in plain text. The order codes for the basic marine version (E00, E11, E21, E31, E51) cannot be combined with each other. For the 1LA9 motor series with increased output, for order codes E11, E31 and E51 derating of 4 % is required and for order codes E00 and E21 derating of 8 % is required.

²⁾ The delivery time for the factory test certificate may differ from the delivery time for the motor.

³⁾ Option or plain text data only necessary for one motor when ordering several motors of the same type.

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10 working days	20 working days	On request
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Special versions – SIMOTICS XP Explosion-Proof Motors Aluminum series 1LA7/5/9

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)											
		Motor version	Motor type (alum.)	Motor type – Frame size											
				63	71	80	90	100	112	132	160	180	200	225	
		Zone 2 Ex nA II, Zone 21/22 Ex tD IE1	1LA7	1LA7										1LA5 ¹⁾	
		Zone 2 Ex nA II, Zone 21/22 Ex tD IE2/ NEMA Energy Efficient	1LA9	1LA9 ²⁾											
1LA -Z		Motor version	Motor type	Frame size											
				63	71	80	90	100	112	132	160	180	200	225	
Marine version – Basic version ³⁾															
Without type test certificate according to ABS 50 °C/ CCS 45 °C/RINA 45 °C, temperature class 155 (F) used according to 155 (F) (if acceptance test certificate 3.1 according to EN 10204 is required, this must be ordered with order code B02) ⁴⁾	E00	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to GL (Germanischer Lloyd), Germany, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E11	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to LR (Lloyds Register), Great Britain, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E21	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to BV (Bureau Veritas), France, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E31	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to RS (Russian Maritime Register of Shipping), Russia, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E46 <i>New!</i>	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to DNV (Det Norske Veritas), Norway, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E51	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Marine version – Acceptance/certification															
Individual acceptance by marine classification society	E10	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Type test with warm run for horizontal motors, with acceptance ⁵⁾	F83	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Type test with warm run for vertical motors, with acceptance ⁵⁾	Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	

O. R. Possible on request
 ✓ With additional charge

1) Zone 2 Ex nA II is not possible for 1LA5 motors; for Zone 2 Ex nA II, 1LG4 motors are available.

2) Zone 2 Ex nA II is not possible for 1LA9 motors in frame sizes 180 and 200.

3) Motor for use in shipping for higher ambient temperature and/or used as 155 (F) according to 130 (B), order with details in plain text. The order codes for the basic marine version (E00, E11, E21, E31, E51) cannot be combined with each other. For the 1LA9 motor series with increased output, for order codes E11, E31 and E51 derating of 4 % is required and for order codes E00 and E21 derating of 8 % is required.

4) The delivery time for the factory test certificate may differ from the delivery time for the motor.

5) Option or plain text data only necessary for one motor when ordering several motors of the same type.

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10
working
days

20
working
days

On
request

Special versions – SIMOTICS XP Explosion-Proof Motors

Cast-iron series 1MA6, 1MJ6/7

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)															
		Motor version	Motor type (cast-iron)	Motor type – Frame size															
				71	80	90	100	112	132	160	180	200	225	250	280	315			
		Zone 1 Ex e II	1MA6						1MA6										
		Zone 1 Ex de IIC	1MJ6/ 1MJ7				1MJ6										1MJ7		
		Motor version	Motor type	Frame size															
				71	80	90	100	112	132	160	180	200	225	250	280	315			
Marine version – Basic version ¹⁾																			
Without type test certificate according to ABS 50 °C/CCS 45 °C/ RINA 45 °C, temperature class 155 (F) used according to 155 (F) (if acceptance test certificate 3.1 according to EN 10204 is required, this must be ordered with order code B02) ²⁾	E00	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to GL (Germanischer Lloyd), Germany, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E11	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to LR (Lloyds Register), Great Britain, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E21	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to BV (Bureau Veritas), France, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E31	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to RS (Russian Maritime Register of Shipping), Russia, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E46 <i>New!</i>	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
With type test certificate according to DNV (Det Norske Veritas), Norway, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E51	All	All	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Marine version – Acceptance/certification																			
Individual acceptance by marine classification society	Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.
Type test with warm run for horizontal motors, with acceptance ³⁾	Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.
Type test with warm run for vertical motors, with acceptance ³⁾	Plain text data	All	All	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

O. R. Possible on request
 ✓ With additional charge

¹⁾ Motor for use in shipping for higher ambient temperature and/or used as 155 (F) according to 130 (B), order with details in plain text. The order codes for the basic marine version (E00, E11, E21, E31, E51) cannot be combined with each other.

²⁾ The delivery time for the factory test certificate may differ from the delivery time for the motor.

³⁾ Option or plain text data only necessary for one motor when ordering several motors of the same type.

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10 working days	20 working days	On request
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Special versions – SIMOTICS XP Explosion-Proof Motors
Cast-iron series 1LA6, 1LG4/6

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)													
		Motor version	Motor type (cast-iron)	Motor type – Frame size													
				71	80	90	100	112	132	160	180	200	225	250	280	315	
		Zone 2 Ex nA II, Zone 21/22 Ex tD IE1	1LA6/1LG4					1LA6 ¹⁾						1LG4			
		Zone 2 Ex nA II, Zone 21/22 Ex tD IE2/NEMA Energy Efficient	1LG6											1LG6 ²⁾			
1L.....-.....-Z		Motor version	Motor type	Frame size													
Marine version – Basic version ³⁾				71	80	90	100	112	132	160	180	200	225	250	280	315	
Without type test certificate according to ABS 50 °C/CCS 45 °C/RINA 45 °C, temperature class 155 (F) used according to 155 (F) (if acceptance test certificate 3.1 according to EN 10204 is required, this must be ordered with order code B02) ⁴⁾	E00	All	All				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to GL (Germanischer Lloyd), Germany, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E11	All	All				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to LR (Lloyds Register), Great Britain, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E21	All	All				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to BV (Bureau Veritas), France, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E31	All	All				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to RS (Russian Maritime Register of Shipping), Russia, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E46 <i>New!</i>	All	All				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With type test certificate according to DNV (Det Norske Veritas), Norway, CT 45 °C, temperature class 155 (F), used according to 155 (F)	E51	All	All				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Marine version – Acceptance/certification																	
Individual acceptance by marine classification society	E10	All	All				–	–	–	–	✓	✓	✓	✓	✓	✓	
	Plain text data	All	All				O. R.	O. R.	O. R.	O. R.	–	–	–	–	–	–	
Type test with warm run for horizontal motors, with acceptance ⁵⁾	F83	All	All				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Type test with warm run for vertical motors, with acceptance ⁵⁾	Plain text data	All	All				O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	

O. R. Possible on request
 ✓ With additional charge
 – Not possible

1) Zone 21 Ex tD is not possible for 1LA6 motors.
 2) Identically priced predecessor type for 2-pole motors 1LG6...2AA../1LG6...2AB.. or 4-pole motors 1LG6...4AA../1LG6...4AB.. to be ordered using options for marine certificates and Ex-version. For increased output of motors 1LG6 ■■■-■■■M■ .. from 160 kW to 315 kW, a marine version and Ex-version are not possible.
 3) Motor for use in shipping for higher ambient temperature and/or used as 155 (F) according to 130 (B), order with details in plain text. The order codes for the basic marine version (E00, E11, E21, E31, E51) cannot be combined with each other.
 4) The delivery time for the factory test certificate may differ from the delivery time for the motor.
 5) Option or plain text data only necessary for one motor when ordering several motors of the same type.

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10 working days	20 working days	On request
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Special versions – SIMOTICS N-compact Non-Standard Motors
Cast-iron series 1LA8, 1LL8, 1PQ8

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)				
		Motor version	Motor type (cast-iron)	Motor type – Frame size				
				315	355	400	450	
		Mains-fed operation	1LA8 1LL8	1LA8 1LL8				
		Converter-fed operation	1LA8 1LL8 1PQ8	1LA8 1LL8 1PQ8				
		Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	1LA8				
	1PQ8 -Z 1L -Z	Motor version	Motor type	Frame size				
				315	355	400	450	
Marine version – Non-Essential Service								
Technical design								
Designed in accordance with ABS (American Bureau of Shipping), USA, Non-Essential Service	X00	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Designed in accordance with BV (Bureau Veritas), France, Non-Essential Service	X01	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Designed in accordance with CCS (Chinese Classification Society), China, Non-Essential Service <i>Note: Non-Essential Service must be handled by CCS as an Essential Service.</i>	–		Mains-fed operation	1LA8 1LL8	– –	– –	– –	– –
			Converter-fed operation	1LA8 1LL8 1PQ8	– – –	– – –	– – –	– – –
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	–	–	–	–
Designed in accordance with DNV (Det Norske Veritas), Norway, Non-Essential Service	X03	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Designed in accordance with GL (Germanischer Lloyd), Germany, Non-Essential Service	X04	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Designed in accordance with KR (Korean Register of Shipping), Korea, Non-Essential Service	X05	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Designed in accordance with LR (Lloyds Register), Great Britain, Non-Essential Service	X06	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10 working days	20 working days	On request
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Special versions – SIMOTICS N-compact Non-Standard Motors Cast-iron series 1LA8, 1LL8, 1PQ8

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)			
		Motor version	Motor type (cast-iron)	Motor type – Frame size			
				315	355	400	450
		Mains-fed operation	1LA8 1LL8	1LA8 1LL8			
		Converter-fed operation	1LA8 1LL8 1PQ8	1LA8 1LL8 1PQ8			
		Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	1LA8			
	1PQ8 -Z 1L -Z	Motor version	Motor type	Frame size			
				315	355	400	450
Marine version – Essential Service							
Technical design							
Designed in accordance with ABS (American Bureau of Shipping), USA, Essential Service	X10	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with BV (Bureau Veritas), France, Essential Service	X11	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with CCS (Chinese Classification Society), China, Essential Service	X12	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with DNV (Det Norske Veritas), Norway, Essential Service	X13	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with GL (Germanischer Lloyd), Germany, Essential Service	X14	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with KR (Korean Register of Shipping), Korea, Essential Service	X15	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with LR (Lloyds Register), Great Britain, Essential Service	X16	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Certification							
Certification for first motor according to ABS (American Bureau of Shipping), USA, Essential Service	J70	<i>New!</i>	All	All	✓	✓	✓
Certification for additional motors according to ABS (American Bureau of Shipping), USA, Essential Service	J71	<i>New!</i>	All	All	✓	✓	✓
Certification for first motor according to BV (Bureau Veritas), France, Essential Service	J72	<i>New!</i>	All	All	✓	✓	✓
Certification for additional motors according to BV (Bureau Veritas), France, Essential Service	J73	<i>New!</i>	All	All	✓	✓	✓
Certification for first motor according to CCS (Chinese Classification Society), China, Essential Service	J74	<i>New!</i>	All	All	✓	✓	✓

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10
working
days

20
working
days

On
request

Special versions – SIMOTICS N-compact Non-Standard Motors Cast-iron series 1LA8, 1LL8, 1PQ8

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)			
		Motor version	Motor type (cast-iron)	Motor type – Frame size			
				315	355	400	450
		Mains-fed operation	1LA8 1LL8	1LA8 1LL8			
		Converter-fed operation	1LA8 1LL8 1PQ8	1LA8 1LL8 1PQ8			
		Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	1LA8			
	1PQ8 -Z 1L -Z	Motor version	Motor type	Frame size			
				315	355	400	450
Marine version – Essential Service (continued)							
Certification (continued)							
Certification for additional motors according to CCS (Chinese Classification Society), China, Essential Service	J75	<i>New!</i>	All	All	✓	✓	✓
Certification for first motor according to DNV (Det Norske Veritas), Norway, Essential Service	J76	<i>New!</i>	All	All	✓	✓	✓
Certification for additional motors according to DNV (Det Norske Veritas), Norway, Essential Service	J77	<i>New!</i>	All	All	✓	✓	✓
Certification for first motor according to GL (Germanischer Lloyd), Germany, Essential Service	J78	<i>New!</i>	All	All	✓	✓	✓
Certification for additional motors according to GL (Germanischer Lloyd), Germany, Essential Service	J79	<i>New!</i>	All	All	✓	✓	✓
Certification for first motor according to KR (Korean Register of Shipping), Korea, Essential Service	J80	<i>New!</i>	All	All	✓	✓	✓
Certification for additional motors according to KR (Korean Register of Shipping), Korea, Essential Service	J81	<i>New!</i>	All	All	✓	✓	✓
Certification for first motor according to LR (Lloyds Register), Great Britain, Essential Service	J82	<i>New!</i>	All	All	✓	✓	✓
Certification for additional motors according to LR (Lloyds Register), Great Britain, Essential Service	J83	<i>New!</i>	All	All	✓	✓	✓
Tests							
Tests for first motor according to ABS (American Bureau of Shipping), USA, Essential Service	X30	<i>New!</i>	All	All	✓	✓	✓
Tests for additional motors according to ABS (American Bureau of Shipping), USA, Essential Service	X31	<i>New!</i>	All	All	✓	✓	✓
Tests for first motor according to BV (Bureau Veritas), France, Essential Service	X32	<i>New!</i>	All	All	✓	✓	✓
Tests for additional motors according to BV (Bureau Veritas), France, Essential Service	X33	<i>New!</i>	All	All	✓	✓	✓
Tests for first motor according to CCS (Chinese Classification Society), China, Essential Service	X34	<i>New!</i>	All	All	✓	✓	✓
Tests for additional motors according to CCS (Chinese Classification Society), China, Essential Service	X35	<i>New!</i>	All	All	✓	✓	✓
Tests for first motor according to DNV (Det Norske Veritas), Norway, Essential Service	X36	<i>New!</i>	All	All	✓	✓	✓
Tests for additional motors according to DNV (Det Norske Veritas), Norway, Essential Service	X37	<i>New!</i>	All	All	✓	✓	✓
Tests for first motor according to GL (Germanischer Lloyd), Germany, Essential Service	X38	<i>New!</i>	All	All	✓	✓	✓
Tests for additional motors according to GL (Germanischer Lloyd), Germany, Essential Service	X39	<i>New!</i>	All	All	✓	✓	✓
Tests for first motor according to KR (Korean Register of Shipping), Korea, Essential Service	X40	<i>New!</i>	All	All	✓	✓	✓
Tests for additional motors according to KR (Korean Register of Shipping), Korea, Essential Service	X41	<i>New!</i>	All	All	✓	✓	✓
Tests for first motor according to LR (Lloyds Register), Great Britain, Essential Service	X42	<i>New!</i>	All	All	✓	✓	✓
Tests for additional motors according to LR (Lloyds Register), Great Britain, Essential Service	X43	<i>New!</i>	All	All	✓	✓	✓
Marine version – Essential Service for Propulsion							
Technical design							
Designed in accordance with ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	X20	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
			Mains-fed operation	1LA8 1LL8	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓
Designed in accordance with BV (Bureau Veritas), France, Essential Service for Propulsion	X21	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
			Mains-fed operation	1LA8 1LL8	✓	✓	✓

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

**10
working
days**

**20
working
days**

**On
request**

Special versions – SIMOTICS N-compact Non-Standard Motors Cast-iron series 1LA8, 1LL8, 1PQ8

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)			
		Motor version	Motor type (cast-iron)	Motor type – Frame size			
				315	355	400	450
		Mains-fed operation	1LA8 1LL8	1LA8 1LL8			
		Converter-fed operation	1LA8 1LL8 1PQ8	1LA8 1LL8 1PQ8			
		Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	1LA8			
		Motor version	Motor type	Frame size			
				315	355	400	450
1PQ8 -Z							
1L -Z							
Marine version – Essential Service for Propulsion (continued)							
Technical design (continued)							
Designed in accordance with CCS (Chinese Classification Society), China, Essential Service for Propulsion	X22	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with DNV (Det Norske Veritas), Norway, Essential Service for Propulsion	X23	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with GL (Germanischer Lloyd), Germany, Essential Service for Propulsion	X24	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with KR (Korean Register of Shipping), Korea, Essential Service for Propulsion	X25	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Designed in accordance with LR (Lloyds Register), Great Britain, Essential Service for Propulsion	X26	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Certification							
Certification for first motor according to ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	N40	<i>New!</i>	All	All	✓	✓	✓
Certification for additional motors according to ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	N41	<i>New!</i>	All	All	✓	✓	✓
Certification for first motor according to BV (Bureau Veritas), France, Essential Service for Propulsion	N42	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓
Certification for additional motors according to BV (Bureau Veritas), France, Essential Service for Propulsion	N43	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓ ✓	✓ ✓	✓ ✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10 working days	20 working days	On request
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Special versions – SIMOTICS N-compact Non-Standard Motors

Cast-iron series 1LA8, 1LL8, 1PQ8

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)				
		Motor version	Motor type (cast-iron)	Motor type – Frame size				
				315	355	400	450	
		Mains-fed operation	1LA8 1LL8	1LA8 1LL8				
		Converter-fed operation	1LA8 1LL8 1PQ8	1LA8 1LL8 1PQ8				
		Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	1LA8				
	1PQ8 -Z 1L -Z	Motor version	Motor type	Frame size				
				315	355	400	450	
Marine version – Essential Service for Propulsion (continued)								
Certification (continued)								
Certification for first motor according to CCS (Chinese Classification Society), China, Essential Service for Propulsion	N44	<i>New!</i>	All	All	✓	✓	✓	✓
Certification for additional motors according to CCS (Chinese Classification Society), China, Essential Service for Propulsion	N45	<i>New!</i>	All	All	✓	✓	✓	✓
Certification for first motor according to DNV (Det Norske Veritas), Norway, Essential Service for Propulsion	N46	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓	✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Certification for additional motors according to DNV (Det Norske Veritas), Norway, Essential Service for Propulsion	N47	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓	✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Certification for first motor according to GL (Germanischer Lloyd), Germany, Essential Service for Propulsion	N48	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓	✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Certification for additional motors according to GL (Germanischer Lloyd), Germany, Essential Service for Propulsion	N49	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓	✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Certification for first motor according to KR (Korean Register of Shipping), Korea, Essential Service for Propulsion	N50	<i>New!</i>	All	All	✓	✓	✓	✓
Certification for additional motors according to KR (Korean Register of Shipping), Korea, Essential Service for Propulsion	N51	<i>New!</i>	All	All	✓	✓	✓	✓
Certification for first motor according to LR (Lloyds Register), Great Britain, Essential Service for Propulsion	N52	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓	✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓
Certification for additional motors according to LR (Lloyds Register), Great Britain, Essential Service for Propulsion	N53	<i>New!</i>	Mains-fed operation	1LA8 1LL8	✓	✓	✓	✓
			Converter-fed operation	1LA8 1LL8 1PQ8	✓	✓	✓	✓
			Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓

SIMOTICS DP Application-specific Motors

Marine motors

Standard delivery times:

10
working
days

20
working
days

On
request

Special versions – SIMOTICS N-compact Non-Standard Motors Cast-iron series 1LA8, 1LL8, 1PQ8

Special versions	Additional identification code -Z with order code and plain text if required	Motor category		Standard delivery time (colored area)				
		Motor version	Motor type (cast-iron)	Motor type – Frame size				
				315	355	400	450	
		Mains-fed operation	1LA8	1LA8				
			1LL8	1LL8				
		Converter-fed operation	1LA8	1LA8				
			1LL8	1LL8				
			1PQ8	1PQ8				
		Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	1LA8				
		Motor version	Motor type	Frame size				
				315	355	400	450	
1PQ8 -Z								
1L -Z								
Marine version – Essential Service for Propulsion (continued)								
Tests								
Tests for first motor according to ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	X60	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for additional motors according to ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	X61	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for first motor according to BV (Bureau Veritas), France, Essential Service for Propulsion	X62	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for additional motors according to BV (Bureau Veritas), France, Essential Service for Propulsion	X63	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for first motor according to CCS (Chinese Classification Society), China, Essential Service for Propulsion	X64	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for additional motors according to CCS (Chinese Classification Society), China, Essential Service for Propulsion	X65	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for first motor according to DNV (Det Norske Veritas), Norway, Essential Service for Propulsion	X66	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for additional motors according to DNV (Det Norske Veritas), Norway, Essential Service for Propulsion	X67	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for first motor according to GL (Germanischer Lloyd), Germany, Essential Service for Propulsion	X68	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for additional motors according to GL (Germanischer Lloyd), Germany, Essential Service for Propulsion	X69	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for first motor according to KR (Korean Register of Shipping), Korea, Essential Service for Propulsion	X70	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for additional motors according to KR (Korean Register of Shipping), Korea, Essential Service for Propulsion	X71	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for first motor according to LR (Lloyds Register), Great Britain, Essential Service for Propulsion	X72	<i>New!</i>	All	All	✓	✓	✓	✓
Tests for additional motors according to LR (Lloyds Register), Great Britain, Essential Service for Propulsion	X73	<i>New!</i>	All	All	✓	✓	✓	✓
Marine version – Additional options for Essential Service and Essential Service for Propulsion								
Tests in presence of representatives of the customer (in addition to the inspector of the classification society)	X99	<i>New!</i>	All	All	✓	✓	✓	✓
Motor for use in shipping, higher ambient temperature and/or use of temperature class 155 (F) according to 130 (B)	E80 • and identification code	Mains-fed operation	1LA8	✓	✓	✓	✓	
			1LL8	✓	✓	✓	✓	
		Converter-fed operation	1LA8	✓	✓	✓	✓	
			1PQ8	✓	✓	✓	✓	
Zone 2 Ex nA II, Zone 22 Ex tD	1LA8	✓	✓	✓	✓			

- This order code only determines the price of the version – Additional plain text is required.
- ✓ With additional charge
- Not possible

SIMOTICS DP Application-specific Motors

Marine motors

Special versions – SIMOTICS N-compact Non-Standard Motors Cast-iron series 1LA8, 1LL8, 1PQ8

Ordering example:

Selection criteria	Requirement	Structure of the Order No.
1st ordering example: 5 motors for Non-Essential Service according to GL (Germanischer Lloyd), Germany		
Motor type	Non-standard motor specially designed for mains-fed operation, self-ventilated, cast-iron version, IP55 degree of protection	1LA8■■■■-■■■■■
Motor frame size/No. of poles/Speed	400/8-pole/750 rpm	1LA8405-8AB■■■
Rated output	400 kW	
Voltage and frequency	500 VΔ, 50 Hz	1LA8405-8AB5■
Type	IM B3	1LA8405-8AB50
Special versions	Technical design in accordance with GL (Germanischer Lloyd), Germany, Non-Essential Service	1LA8405-8AB50-Z X04
	Order No. for each of the 5 motors	1LA8405-8AB50-Z X04
2nd ordering example: 7 motors for Essential Service according to BV (Bureau Veritas), France		
Motor type	Non-standard motor especially for converters, self-ventilated with through-ventilation, cast-iron version, IP23 degree of protection	1LL8■■■■-■■■■■
Motor frame size/No. of poles/Speed	400/2-pole/3000 rpm	1LL8405-2PD■■■
Rated output	1000 kW	
Voltage and frequency	400 VΔ/690 VY, 50 Hz	1LL8405-2PD8■
Type	IM V1 with canopy	1LL8405-2PD84
Special versions		
1st motor	Technical design in accordance with BV (Bureau Veritas), France, Essential Service	1LL8405-2PD84-Z X11
	Necessary certification for first motor ordered in accordance with BV (Bureau Veritas), France, Essential Service	1LL8405-2PD84-Z X11+J72
	Necessary tests for first motor ordered in accordance with BV (Bureau Veritas), France, Essential Service	1LL8405-2PD84-Z X11+J72+X32
	Order No. for 1st motor	1LL8405-2PD84-Z X11+J72+X32
Additional 6 motors (additional motors)	Technical design in accordance with BV (Bureau Veritas), France, Essential Service	1LL8405-2PD84-Z X11
	Necessary certification for additional motors ordered in accordance with BV (Bureau Veritas), France, Essential Service	1LL8405-2PD84-Z X11+J73
	Necessary tests for additional motors ordered in accordance with BV (Bureau Veritas), France, Essential Service	1LL8405-2PD84-Z X11+J73+X33
	Order No. for the additional 6 motors	1LL8405-2PD84-Z X11+J73+X33
3rd ordering example: 3 motors for Essential Service for Propulsion according to ABS (American Bureau of Shipping), USA		
Motor type	Non-standard motor specially designed for mains-fed operation, self-ventilated, cast-iron version, IP55 degree of protection	1LA8■■■■-■■■■■
Motor frame size/No. of poles/Speed	400/8-pole/750 rpm	1LA8405-8AB■■■
Rated output	400 kW	
Voltage and frequency	500 VΔ, 50 Hz	1LA8405-8AB5■
Type	IM B3	1LA8405-8AB50
Special versions		
1st motor	Technical design in accordance with ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	1LA8405-8AB50-Z X20
	Necessary certification for first motor ordered in accordance with ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	1LA8405-8AB50-Z X20+N40
	Necessary tests for first motor ordered in accordance with ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	1LA8405-8AB50-Z X20+N40+X60
	Order No. for 1st motor	1LA8405-8AB50-Z X20+N40+X60
Additional 2 motors (additional motors)	Technical design in accordance with ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	1LA8405-8AB50-Z X20
	Necessary certification for additional motors ordered in accordance with ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	1LA8405-8AB50-Z X20+N41
	Necessary tests for additional motors ordered in accordance with ABS (American Bureau of Shipping), USA, Essential Service for Propulsion	1LA8405-8AB50-Z X20+N41+X61
	Order No. for the additional 2 motors	1LA8405-8AB50-Z X20+N41+X61
4th ordering example: 1 motor for Essential Service according to ABS (American Bureau of Shipping), USA, coolant temperature 60 °C:		
Motor type	Non-standard motor specially designed for mains-fed operation, self-ventilated, cast-iron version, IP55 degree of protection	1LA8■■■■-■■■■■
Motor frame size/No. of poles/Speed	400/8-pole/750 rpm	1LA8405-8AB■■■
Rated output	400 kW	
Voltage and frequency	500 VΔ, 50 Hz	1LA8405-8AB5■
Type	IM B3	1LA8405-8AB50
Special versions		
	Technical design in accordance with ABS (American Bureau of Shipping), USA, Essential Service	1LA8405-8AB50-Z X10
	Necessary certification for first motor ordered in accordance with ABS (American Bureau of Shipping), USA, Essential Service	1LA8405-8AB50-Z X10+J70
	Necessary tests for first motor ordered in accordance with ABS (American Bureau of Shipping), USA, Essential Service	1LA8405-8AB50-Z X10+J70+X30
	Motor for use in shipping, higher ambient temperature and/or use of temperature class 155 (F) according to 130 (B) - coolant temperature 60 °C	1LA8405-8AB50-Z X10+J70+X30+E80 Plain text: COOLANT TEMP CT60
	Order No. for the motor	1LA8405-8AB50-Z X10+J70+X30+E80 Plain text: COOLANT TEMP CT60