



# Frequency Inverter Selection Guide

### Automated production and life



# EM760 Series Inverter

Three-phase AC 340V-460V 0.75kW-710kW 660V-690V 18.5kW-800kW

The EM760 series inverter is a high-performance vector control inverter launched by SINEE, which integrates the synchronous motor drive and asynchronous motor drive. It supports three-phase AC asynchronous motors and permanent magnet synchronous motors; drive control technologies, such as the improved vector VF control technology (VVF), speed sensorless vector control technology (SVC) and speed sensor vector control technology (FVC); speed output and torque output; Wi-Fi access and background software debugging; expansions such as I/O expansion cards, communica-tion bus expansion cards and PG cards.

#### Features of the EM760 series inverter:

1.Standard built-in C3 filter to meet the high requirements of electromagnetic compatibility

2.Built-in DC reactor to reduce input current distortion and increase the power factor

- 3. Standard LCD panel, easy to operate
- 4. Integration of the permanent magnet synchronous motor / asynchronous motor / permanent magnet synchronous reluctance motor / high-speed motor drive
- 5. Mainstream bus expansion cards: PROFINET, CANopen, EtherCAT
- 6. PG cards: OC, differential, UVW, resolver PG card, sine and cosine PG card



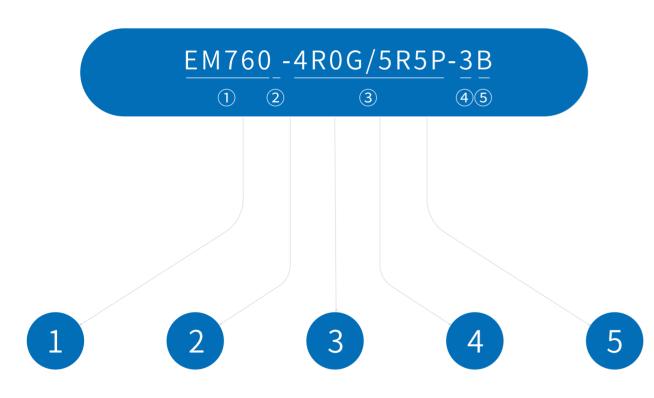
5.Mainstream bus expansion cards: PROFINET, CANopen, EtherCAT6.PG cards: OC, differential, UVW, resolver PG card, sine and cosinePG card

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FREQUENCY INVERTER SELECTION GUIDE



#### **Model and Product List**



em760: High-performance series

Null: Installation in cabinet C: Cabinet type Identification Compatible motor type

G Universal model Fan pump type

ole Voltage level model 2:Three-phas

2:Three-phase 220V 3:Three-phase 380V 6:Three-phase 660V B: Built-in braking unit None: Without braking unit

#### COMPATIBLE LOAD POWER

OR1	4R0	 018	
0.75kW	4.0kW	 18.5kW	



RATED VOLTAGE OF POWER SUPPLY: THREE-PHASE AC 340V TO 460V

Model         Applicable motor power (kW)         Rated output current (A)           EM760-0R7G/IR5P-3B         0.75/1.5         2.5/4.2           EM760-1R5G/2R2P-3B         1.5/2.2         4.2/5.6           EM760-2R2G/3R0P-3B         2.2/3.0         5.6/7.2           EM760-4R0G/SR5P-3B         4.0/5.5         9.4/12           EM760-5R5G/7R5P-3B         5.5/7.5         13/17           EM760-011G/015P-3B         1.7/20         17/20           EM760-011G/015P-3B         11/15         25/32           EM760-015G/018P-3B         15/18.5         32/38           EM760-018G/022P-3B         18.5/22         38/44           EM760-022G/030P-3B         22/30         45/59           EM760-030G/03P-3/3B         30/37         60/73           EM760-030G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-075G/090P-3/3B         55/75         110/145           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-12G/690P-3         132/160         253/298           EM760-12G/15P-3         200/220         380/410           EM760-220G/250P-3				
EM760-1R5G/2R2P-3B         1.5/2.2         4.2/5.6           EM760-2R2G/3R0P-3B         2.2/3.0         5.6/7.2           EM760-4R0G/5R5P-3B         4.0/5.5         9.4/12           EM760-5R5G/7R5P-3B         5.5/7.5         13/17           EM760-7R5G/9R0P-3B         7.5/9.0         17/20           EM760-011G/015P-3B         11/15         25/32           EM760-015G/018P-3B         15/18.5         32/38           EM760-018G/022P-3B         18.5/22         38/44           EM760-022G/030P-3B         22/30         45/59           EM760-030G/037P-3/3B         30/37         60/73           EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-090G/110P-3         90/110         176/208           EM760-090G/110P-3         90/110         176/208           EM760-132G/160P-3         132/160         253/298           EM760-106G/185P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-250G/280P-3         250/280         465/510           EM760-315G/355P-3         315/355 <t< th=""><th colspan="2">Model</th><th>Applicable motor power (kW)</th><th>Rated output current (A)</th></t<>	Model		Applicable motor power (kW)	Rated output current (A)
EM760-2R2G/3R0P-3B         2.2/3.0         5.6/7.2           EM760-4R0G/5R5P-3B         4.0/5.5         9.4/12           EM760-5R5G/7R5P-3B         5.5/7.5         13/17           EM760-7R5G/9R0P-3B         7.5/9.0         17/20           EM760-011G/015P-3B         11/15         25/32           EM760-015G/018P-3B         15/18.5         32/38           EM760-018G/022P-3B         18.5/22         38/44           EM760-023G/030P-3B         22/30         45/59           EM760-037G/045P-3/3B         30/37         60/73           EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-090G/110P-3         90/110         176/208           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-200G/220P-3         200/220         380/410           EM760-220G/250P-3         220/250         426/456           EM760-280G/315P-3         280/315         520/573           EM760-315G/355P-3         315/355 <td< td=""><td></td><td>EM760-0R7G/1R5P-3B</td><td>0.75/1.5</td><td>2.5/4.2</td></td<>		EM760-0R7G/1R5P-3B	0.75/1.5	2.5/4.2
EM760-4R0G/5R5P-3B         4.0/5.5         9.4/12           EM760-SR5G/7R5P-3B         5.5/7.5         13/17           EM760-011G/015P-3B         7.5/9.0         17/20           EM760-011G/015P-3B         11/15         25/32           EM760-015G/018P-3B         15/18.5         32/38           EM760-018G/022P-3B         18.5/22         38/44           EM760-022G/030P-3B         22/30         45/59           EM760-030G/037P-3/3B         30/37         60/73           EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-090G/110P-3         90/110         176/208           EM760-090G/110P-3         90/110         176/208           EM760-132G/160P-3         132/160         253/298           EM760-132G/160P-3         132/160         253/298           EM760-200G/220P-3         200/220         380/410           EM760-250G/280P-3         220/250         426/456           EM760-250G/280P-3         250/280         465/510           EM760-315G/355P-3         315/355         585/640           EM760-400G/450P-3         355/400		EM760-1R5G/2R2P-3B	1.5/2.2	4.2/5.6
EM760-SRSG/7RSP-3B         5.5/7.5         13/17           EM760-011G/015P-3B         7.5/9.0         17/20           EM760-011G/015P-3B         11/15         25/32           EM760-015G/018P-3B         15/18.5         32/38           EM760-018G/022P-3B         18.5/22         38/44           EM760-022G/030P-3B         22/30         45/59           EM760-030G/037P-3/3B         30/37         60/73           EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-090G/110P-3         90/110         176/208           EM760-10G/132P-3         110/132         210/248           EM760-110G/132P-3         110/132         210/248           EM760-10G/185P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-220G/250P-3         220/250         426/456           EM760-280G/315P-3         280/315         520/573           EM760-315G/355P-3         315/355         585/640           EM760-400G/450P-3         400/450         725/810           EM760-450G/500P-3         450/500         8		EM760-2R2G/3R0P-3B	2.2/3.0	5.6/7.2
EM760-7R5G/9R0P-3B         7.5/9.0         17/20           EM760-011G/015P-3B         11/15         25/32           EM760-015G/018P-3B         15/18.5         32/38           EM760-018G/022P-3B         18.5/22         38/44           EM760-022G/030P-3B         22/30         45/59           EM760-030G/037P-3/3B         30/37         60/73           EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-12G/160P-3         132/160         253/298           EM760-12G/160P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-220G/250P-3         220/250         426/456           EM760-250G/280P-3         250/280         465/510           EM760-315G/355P-3         315/355         585/640           EM760-355G/400P-3         355/400         650/715           EM760-400G/450P-3         400/450         725/810           EM760C-450G/500P-3         500/560 <td< td=""><td></td><td>EM760-4R0G/5R5P-3B</td><td>4.0/5.5</td><td>9.4/12</td></td<>		EM760-4R0G/5R5P-3B	4.0/5.5	9.4/12
EM760-011G/015P-3B 15/18.5 32/38  EM760-015G/018P-3B 15/18.5 32/38  EM760-018G/022P-3B 18.5/22 38/44  EM760-022G/030P-3B 22/30 45/59  EM760-030G/037P-3/3B 30/37 60/73  EM760-037G/045P-3/3B 37/45 75/87  EM760-045G/055P-3/3B 45/55 90/106  EM760-055G/075P-3/3B 55/75 110/145  EM760-075G/090P-3/3B 75/90 150/169  EM760-090G/110P-3 90/110 176/208  EM760-110G/132P-3 110/132 210/248  EM760-12G/160P-3 132/160 253/298  EM760-160G/185P-3 160/185 304/350  EM760-200G/220P-3 200/220 380/410  EM760-220G/250P-3 220/250 426/456  EM760-280G/315P-3 280/315 520/573  EM760-280G/315P-3 280/315 520/573  EM760-315G/355P-3 315/355 585/640  EM760-350G/500P-3 450/500 820/900  EM760-4400G/450P-3 450/500 820/900  EM760C-450G/500P-3 450/500 900/1010		EM760-5R5G/7R5P-3B	5.5/7.5	13/17
EM760-015G/018P-3B         15/18.5         32/38           EM760-018G/022P-3B         18.5/22         38/44           EM760-022G/030P-3B         22/30         45/59           EM760-030G/037P-3/3B         30/37         60/73           EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-075G/090P-3/3B         75/90         150/169           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-200G/220P-3         200/220         380/410           EM760-200G/220P-3         200/220         380/410           EM760-250G/280P-3         250/280         465/510           EM760-280G/315P-3         280/315         520/573           EM760-315G/355P-3         315/355         585/640           EM760-400G/450P-3         400/450         725/810           EM760-450G/500P-3         450/500         820/900           EM760C-500G/560P-3         500/560         900/1010		EM760-7R5G/9R0P-3B	7.5/9.0	17/20
EM760-018G/022P-3B         18.5/22         38/44           EM760-022G/030P-3B         22/30         45/59           EM760-030G/037P-3/3B         30/37         60/73           EM760-03TG/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-075G/090P-3/3B         75/90         150/169           EM760-100G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-160G/185P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-220G/250P-3         220/250         426/456           EM760-250G/280P-3         250/280         465/510           EM760-280G/315P-3         280/315         520/573           EM760-315G/355P-3         315/355         585/640           EM760-400G/450P-3         400/450         725/810           EM760-400G/450P-3         450/500         820/900           EM760C-500G/560P-3         500/560         900/1010		EM760-011G/015P-3B	11/15	25/32
EM760-022G/030P-3B         22/30         45/59           EM760-030G/037P-3/3B         30/37         60/73           EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-075G/090P-3/3B         75/90         150/169           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-160G/185P-3         160/185         304/350           EM760-220G/250P-3         200/220         380/410           EM760-250G/280P-3         250/280         465/510           EM760-250G/280P-3         250/280         465/510           EM760-315G/355P-3         315/355         585/640           EM760-355G/400P-3         355/400         650/715           EM760-400G/450P-3         400/450         725/810           EM760C-450G/500P-3         450/500         820/900           EM760C-500G/560P-3         500/560         900/1010		EM760-015G/018P-3B	15/18.5	32/38
EM760-030G/037P-3/3B         30/37         60/73           EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-075G/090P-3/3B         75/90         150/169           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-160G/185P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-250G/280P-3         220/250         426/456           EM760-280G/315P-3         280/315         520/573           EM760-315G/355P-3         315/355         585/640           EM760-355G/400P-3         355/400         650/715           EM760-400G/450P-3         400/450         725/810           EM760C-450G/500P-3         450/500         820/900           EM760C-500G/560P-3         500/560         900/1010		EM760-018G/022P-3B	18.5/22	38/44
EM760-037G/045P-3/3B         37/45         75/87           EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-075G/090P-3/3B         75/90         150/169           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-160G/185P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-250G/280P-3         220/250         426/456           EM760-250G/280P-3         250/280         465/510           EM760-280G/315P-3         280/315         520/573           EM760-315G/355P-3         315/355         585/640           EM760-355G/400P-3         355/400         650/715           EM760-400G/450P-3         400/450         725/810           EM760C-450G/500P-3         450/500         820/900           EM760C-500G/560P-3         500/560         900/1010		EM760-022G/030P-3B	22/30	45/59
EM760-045G/055P-3/3B         45/55         90/106           EM760-055G/075P-3/3B         55/75         110/145           EM760-075G/090P-3/3B         75/90         150/169           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-160G/185P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-220G/250P-3         220/250         426/456           EM760-250G/280P-3         250/280         465/510           EM760-315G/355P-3         315/355         585/640           EM760-315G/355P-3         315/355         585/640           EM760-400G/450P-3         400/450         725/810           EM760-400G/450P-3         450/500         820/900           EM760C-500G/560P-3         500/560         900/1010		EM760-030G/037P-3/3B	30/37	60/73
EM760-055G/075P-3/3B         55/75         110/145           EM760-075G/090P-3/3B         75/90         150/169           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-160G/185P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-220G/250P-3         220/250         426/456           EM760-250G/280P-3         250/280         465/510           EM760-315G/355P-3         315/355         585/640           EM760-315G/355P-3         315/355         585/640           EM760-400G/450P-3         400/450         725/810           EM760-400G/500P-3         450/500         820/900           EM760C-500G/560P-3         500/560         900/1010		EM760-037G/045P-3/3B	37/45	75/87
EM760-075G/090P-3/3B         75/90         150/169           EM760-090G/110P-3         90/110         176/208           EM760-110G/132P-3         110/132         210/248           EM760-132G/160P-3         132/160         253/298           EM760-160G/185P-3         160/185         304/350           EM760-200G/220P-3         200/220         380/410           EM760-220G/250P-3         220/250         426/456           EM760-250G/280P-3         250/280         465/510           EM760-280G/315P-3         280/315         520/573           EM760-315G/355P-3         315/355         585/640           EM760-400G/450P-3         400/450         725/810           EM760-450G/500P-3         450/500         820/900           EM760C-500G/560P-3         500/560         900/1010		EM760-045G/055P-3/3B	45/55	90/106
EM760-090G/110P-3       90/110       176/208         EM760-110G/132P-3       110/132       210/248         EM760-132G/160P-3       132/160       253/298         EM760-160G/185P-3       160/185       304/350         EM760-200G/220P-3       200/220       380/410         EM760-220G/250P-3       220/250       426/456         EM760-250G/280P-3       250/280       465/510         EM760-280G/315P-3       280/315       520/573         EM760-315G/355P-3       315/355       585/640         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-055G/075P-3/3B	55/75	110/145
EM760-110G/132P-3       110/132       210/248         EM760-132G/160P-3       132/160       253/298         EM760-160G/185P-3       160/185       304/350         EM760-200G/220P-3       200/220       380/410         EM760-220G/250P-3       220/250       426/456         EM760-250G/280P-3       250/280       465/510         EM760-280G/315P-3       280/315       520/573         EM760-315G/355P-3       315/355       585/640         EM760-400G/450P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-075G/090P-3/3B	75/90	150/169
EM760-132G/160P-3       132/160       253/298         EM760-160G/185P-3       160/185       304/350         EM760-200G/220P-3       200/220       380/410         EM760-220G/250P-3       220/250       426/456         EM760-250G/280P-3       250/280       465/510         EM760-280G/315P-3       280/315       520/573         EM760-315G/355P-3       315/355       585/640         EM760-400G/450P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-090G/110P-3	90/110	176/208
EM760-160G/185P-3       160/185       304/350         EM760-200G/220P-3       200/220       380/410         EM760-220G/250P-3       220/250       426/456         EM760-250G/280P-3       250/280       465/510         EM760-280G/315P-3       280/315       520/573         EM760-315G/355P-3       315/355       585/640         EM760-355G/400P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-110G/132P-3	110/132	210/248
EM760-200G/220P-3       200/220       380/410         EM760-220G/250P-3       220/250       426/456         EM760-250G/280P-3       250/280       465/510         EM760-280G/315P-3       280/315       520/573         EM760-315G/355P-3       315/355       585/640         EM760-355G/400P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-132G/160P-3	132/160	253/298
EM760-220G/250P-3       220/250       426/456         EM760-250G/280P-3       250/280       465/510         EM760-280G/315P-3       280/315       520/573         EM760-315G/355P-3       315/355       585/640         EM760-355G/400P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-160G/185P-3	160/185	304/350
EM760-250G/280P-3       250/280       465/510         EM760-280G/315P-3       280/315       520/573         EM760-315G/355P-3       315/355       585/640         EM760-355G/400P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-200G/220P-3	200/220	380/410
EM760-280G/315P-3       280/315       520/573         EM760-315G/355P-3       315/355       585/640         EM760-355G/400P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-220G/250P-3	220/250	426/456
EM760-315G/355P-3       315/355       585/640         EM760-355G/400P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-250G/280P-3	250/280	465/510
EM760-355G/400P-3       355/400       650/715         EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-280G/315P-3	280/315	520/573
EM760-400G/450P-3       400/450       725/810         EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-315G/355P-3	315/355	585/640
EM760C-450G/500P-3       450/500       820/900         EM760C-500G/560P-3       500/560       900/1010		EM760-355G/400P-3	355/400	650/715
EM760C-500G/560P-3 500/560 900/1010		EM760-400G/450P-3	400/450	725/810
		EM760C-450G/500P-3	450/500	820/900
EM760C-560G/630P-3 560/630 1010/1140		EM760C-500G/560P-3	500/560	900/1010
		EM760C-560G/630P-3	560/630	1010/1140



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EM760/EM730/EM700

FREQUENCY INVERTER SELECTION GUIDE

# **Technical Specification**





Item	Specification
Rated voltage of power supply	Three-phase 340V-10% to 460V+10% 50-60Hz $\pm$ 5%; voltage unbalance rate: <3%



Item	Specification
Maximum output voltage	The maximum output voltage is the same as the input power voltage.
Rated output current	Continuous output of 100% rated current
Maximum overload current	G model: 150% rated current for 60s P model: 120% rated current for 60s (2kHz carrier; please derate for carriers above this level)



Item	Specification
Driving mode	V/F control (WF) Speed sensorless vector control (SVC) Speed sensor vector control (FVC)
Input mode	Frequency (speed) input, torque input
Start and stop control mode	Keyboard, control terminal (two-line control and three-line control), communication
Frequency control range	$0.00 \sim 600.00$ Hz/ $0.0 \sim 3000.0$ Hz
Input frequency resolution	Digital input: 0.01Hz Analog input: 0.1% of maximum frequency
Speed control range	1:50 (VVF) 、1:200 (SVC) 、1:1000 (FVC)
Speed control accuracy	$\pm 0.5\%$ (VVF)、 $\pm 0.2\%$ (SVC)、 $\pm 0.02\%$ (FVC)
Acceleration and deceleration time	$0.01\mathrm{s}$ to $600.00\mathrm{s}$ / $0.1\mathrm{s}$ to $6,000.0\mathrm{s}$ / $1\mathrm{s}$ to $60,000\mathrm{s}$
Voltage/frequency characteristics	Rated output voltage: 20% to 100%, adjustable; fundamental frequency: 1Hz to 600Hz/3000Hz, adjustable
Torque boost	Fixed torque boost curve, any V/F curve optional
Starting torque	150%/3Hz (VVF) 、150%/0.25Hz (SVC) 、180%/0Hz (FVC)
Torque control accuracy	$\pm$ 5% rated torque (SVC), $\pm$ 3% rated torque (FVC)
Self-adjustment of output voltage	When the input voltage changes, the output voltage will basically remain unchange
Automatic current limit	Output current is automatically limited to avoid frequent overcurrent trips.
DC braking	Braking frequency: 0.01 to maximum frequency Braking time: 0 $\sim$ 30S Braking current: 0% to 100% of rated current
Signal input source	Communication, multi-speed, analog, high-speed pulse, etc.



Item	Specification
Reference power supply	10.5V±0.5V/20mA
Terminal control power	24V/200mA
Digital input termina	7 (standard X1 to X7) + 3 (extension card X8 to X10) digital multi-function inputs: X7 can be used as a high-speed pulse input terminal (F02.06 = 35/38/40); The remaining 9 channels (X1 to X6 and X8 to X10) can only be used as ordinary digital input terminals.
Analog input terminal	3 (standard Al1 to Al3) + 1 (extension card Al4) analog inputs:  One Al1: support 0 to 10V or -10 to 10V, optional through function code F02.62;  Two Al2/Al3: support 0 to 10V or 0 to 20mA or 4 to 20mA, through the function code F02.63,  F02.64 is optional;  One Al4: support 0 to 10V or -10 to 10V, optional through function code F02.65
Digital output terminal	2 (standard Y1/Y2) open-collector multi-function outputs + 2 (R1:EA/EB/EC and R2:RA/RB/RC) relay multi-function outputs + 2 (extension card) (R3: RA3/RC3 and R4: RA4/RC4) relay multi-function outputs Maximum output current of the collector: 50 mA; Relay contact capacity 250VAC/3A or 30VDC/1A, with EA-EC and RA-RC normally cell-EC and RB-RC normally closed; RA3-RC3, RA4-RC4 normally open
Analog output terminal	Two (M1/M2) multi-function analog output terminals, with output of 0 to 10V or 0 to 20mA or 4 to 20mA, optional through function codes F03.34 and F03.35



LCD display The LCD displays relevant information about the inverter.
Parameter copying Parameter settings of the inverter can be uploaded and downloaded for facopying.



Item	Specification
Protective Function	Short circuit, overcurrent, overvoltage, undervoltage, phase loss, overload, overheat, overspeed, load loss, external fault, etc.



Item	Specification
Location	Indoor, at an altitude of less than 1 km, free of dust, corrosive gases and direct sunlight
Applicable environment	-10°C to +50°C, derating by 5% per 1°C increase above 40°C, 20% to 90%RH (non-condensing the condensing the condension the condension the condensing the condension the co
Vibration	Less than 0.5g
Storage environment	-40°C∼ +70°C
Installation method	Wall-mounted, floor-standing electrical control cabinet, through-wall



Item	Specification
Protection level	Standard IP21/IP20 (remove the plastic cover at the top of the plastic case)
Item	Specification

Forced air cooling

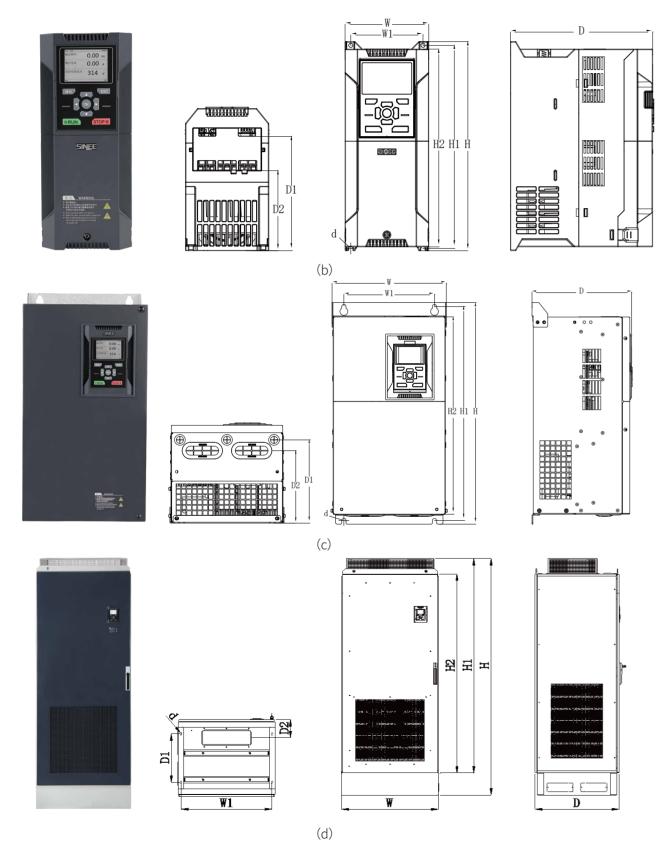


Cooling method

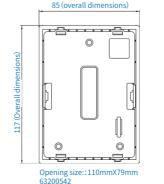
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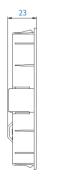
EM760/EM730/EM700
FREQUENCY INVERTER SELECTION GUIDE

### **Dimension**



Specifications	W(mm)	W1(mm)	H(mm)	H1(mm)	H2(mm)	D(mm)	D1(mm)	D2 (mm)	d(mm)	appearance	
EM760-0R7G/1R5P-3B											
EM760-1R5G/2R2P-3B	95	82	230	222	218	171	132	96	4.5		
EM760-2R2G/3R0P-3B	95	02	230	222	218	111	132	96	4.5		
EM760-4R0G/5R5P-3B											
EM760-5R5G/7R5P-3B	110	95	275	267	260	187	146	105	5.5	(b)	
EM760-7R5G/9R0P-3B	110	93	213	267	260	101	140	103	5.5	(D)	
EM760-011G/015P-3B	140	124	297	289	280	207	163	120	5.5		
EM760-015G/018P-3B	140	124	291	209	200	201	105	120	5.5		
EM760-018G/022P-3B	190	171	350	340	330	220	173	128	7		
EM760-022G/030P-3B	150	111	330	340	330	220	113	120	,		
EM760-030G/037P-3/3B	254	200	484	465	440	221	180.5	158	9.5		
EM760-037G/045P-3/3B	2.54	200	404	405	440	221					
EM760-045G/055P-3/3B	304	210	540	519	480	263	217	197	9.5		
EM760-055G/075P-3/3B	304	210									
EM760-075G/090P-3/3B	324	230	638	613	570	264	220	181	11.5		
EM760-090G/110P-3	339	270	270 623	600	578	3 296	243	243	11.5		
EM760-110G/132P-3		210	023	000	310	230	243	243	11.5		
EM760-132G/160P-3	422	422	320	786	758	709	335	271	256.4	11.5	(c)
EM760-160G/185P-3	422	320	700	130	103	333	211	230.4	11.5	(C)	
EM760-200G/220P-3	441	320	1025	989	942	357	/	285	11.5		
EM760-220G/250P-3	771	320	1023	303	342	331	/	205	11.5		
EM760-250G/280P-3	560	450	1204	1170.5	1100	400	/	333	13		
EM760-280G/315P-3	300	430	1204	1110.5	1100	400	/	333	15		
EM760-315G/355P-3				1567							
EM760-355G/400P-3	660	660 443	1597		1504	1504 430	430 375.5	323.5	13		
EM760-400G/450P-3											
EM760C-450G/500P-3	805										
EM760C-500G/560P-3		756	2145	1945	1804	700	440	165	13	(d)	
EM760C-560G/630P-3											





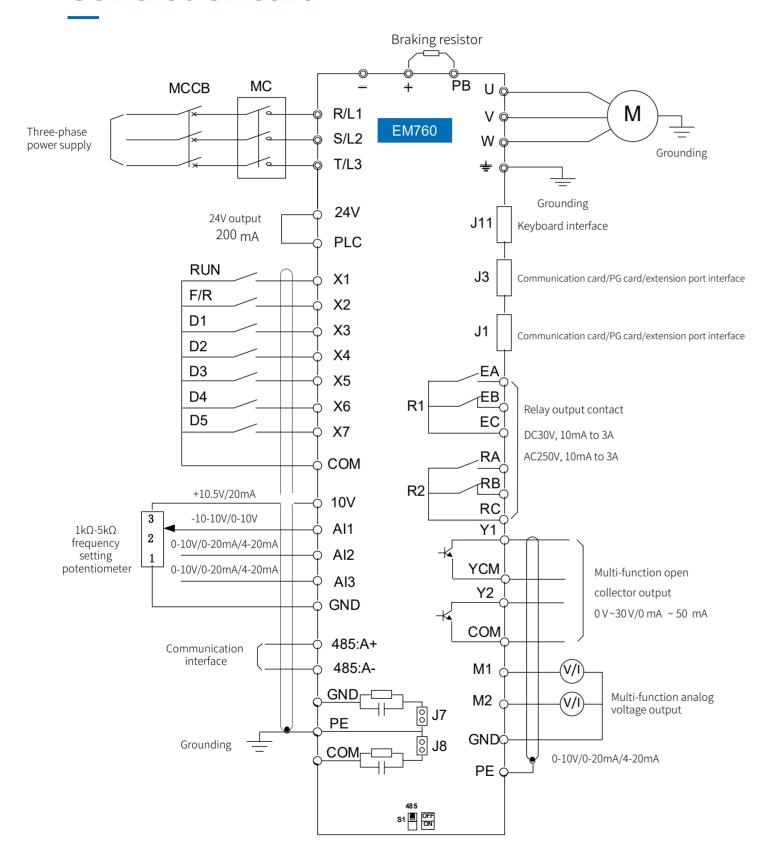


(reference size of keyboard bracket opening)

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EM760/EM730/EM700

## **Standard Wiring Diagram of Control Circuit**



### **Options of EM760 series inverter**

Select accessories	Name & Model	Function	Photo
	EM760-CM-C1	This communication card is required for CANopen bus communication. Connect the inverter to CANopen bus for bus communication.	
Communication card	EM760-CM-PN1	profinet fieldbus adapter card, in line with the international profinet Ethernet standard.	
IO expansion card	EM760-IO-A1	The IO expansion card is used for expansion to 3 multi-function digital inputs, 2 relay outputs and 4 analog inputs, supporting PT100/PT1000/PTC/KTY84 and other common motor temperature sensors, respectively.	
	EM760-PG-OD1	It can be used with differential (line drive) output encoder, open collector output encoder and push-pull complementary output encoder. The optional output voltage is 5V and 12V (5V by default).	
PG card	EM760-PG-OD2	It can be used with differential (line drive) output encoder, open collector output encoder, push-pull complementary output encoder, and has the function of frequency dividing output. Its output is the NPN open collector output. The optional output voltage is 5V and 12V (5V by default).	
	EM760-PG-R1	Rotary transformer PG card	
	EM760-PG-U1	UVW differential input PG card	
	EM760-PG-S1	Sincos encoder PG card	
	LED two-row keyboard	Support double-line display of two inverter status parameters at the same time.  One parameter can be changed by operating the left and right key. Users can perform parameter setting, status monitoring, start/stop and fault query.	88888 88889 88889 8888 8888
Others	WIFI module		
	Energy consumption braking unit BR100-045 BR100-160 BR100-200 BR100-315 BR100-400 BR100-220-6	It has the functions of stable and reliable working performance and protection against over-temperature and braking resistor short circuit, and can be used for inverter-driven lifting equipment, centrifuges, washing machines, spin dryers, and rapid parking.	SINGE

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## **BR100 Series Energy Consumption Braking Unit**

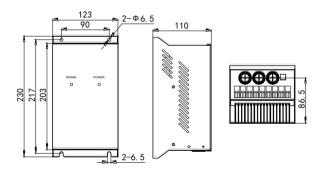
The BR100 series braking unit has the stable and reliable working performance and protection against over-temperature and braking resistor short circuit, and can be used for inverter-driven lifting equipment, centrifuges, washing machines, spin dryers, and rapid parking. It can change the electric energy generated by the motor in the power generation state into the thermal energy to be used by the braking resistor. In addition, it is easy to use and compatible with inverters of various brands.

Model and specification	Application	Minimum Resistance (Ω)	Average Braking Current Iav(A)	Peak Current I <sub>max</sub> (A)	Applicable Inverter Power (kW)
BR100-045	Energy consumption braking	10	45	75	18.5~45
BR100-160		6	75	150	55~160
BR100-200		5	100	200	160-200
BR100-315		3	120	300	220~315
BR100-400		3	200	400	315~400
BR100-220-6		6	120	200	160~250

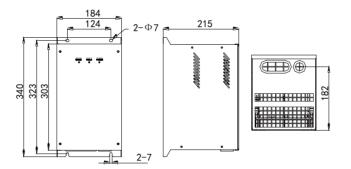
Note: With the minimum resistance, the BR100 braking unit can work continuously at the braking frequency D $\leq$ 33%. In the case of D>33%, it should work intermittently; otherwise, the over-temperature protection fault may occur.



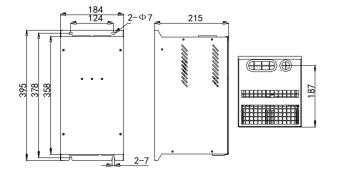
#### **Product model and size**



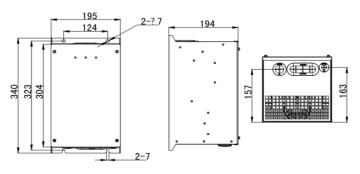
Dimensions of BR100-045 braking unit



Dimensions of BR100-160\BR100-200 braking unit



Dimensions of BR100-315\BR100-400 braking unit



Dimensions of BR100-220-6 braking unit





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