



U1

U2



U3



R7



R8



R9



4x2S - motor 15

- Note 1:  
 1. Typical power module parallel structure  
 2. Inverter power module 180V input  
 3. PFCU is Parallel-Contactor  
 4. PFCU parallel current sharing reactor

**SMM 【DC-AC】** Single motor drive module, forced air cooling, ACS880, 380V, 690V  
 Three-phase input  $U_n = 400V(380-500V)$  The rated power is valid when the voltage is 400V (55-132-560-2800kW) \* According to the rated and peak load current selection

| Nominal ratings |            |                | Light-overload |                 | Heavy-duty     |                 | Permissible | Heat  | Air flow | Model Number                    | Auxiliary power<br>(DC-link<br>400V/500V<br>input/output) | Frame size<br>(mm)                |
|-----------------|------------|----------------|----------------|-----------------|----------------|-----------------|-------------|-------|----------|---------------------------------|---|-----------------------------------|
| $P_n$<br>kW     | $I_n$<br>A | $I_{max}$<br>A | $I_{150}$<br>A | $P_{150}$<br>kW | $I_{300}$<br>A | $P_{300}$<br>kW | dB(A)       | W     | m³/h     |                                 |   |                                   |
| 1.5             | 3.3        | 4.1            | 3.1            | 1.5             | 2.4            | 0.75            | 45          | 50    | 25       | ACS880-01B-03A3-3+SMM           | 24V4.5W   | U1<br>(45-132-<br>H400<br>D3200)  |
| 2.2             | 5.6        | 6.8            | 5.3            | 2.2             | 4.0            | 1.5             | 45          | 75    | 30       | ACS880-01C-05A6-3+SMM           | 24V4.5W   |                                   |
| 4.0             | 9.5        | 12             | 8.8            | 4.0             | 5.6            | 2.2             | 45          | 97    | 40       | ACS880-01D-09A8-3+SMM           | 24V4.5W   |                                   |
| 5.5             | 12.9       | 16             | 12             | 5.5             | 9.4            | 4.0             | 45          | 172   | 50       | ACS880-01E-12A6-3+SMM           | 24V4.5W   |                                   |
| 7.5             | 17         | 21             | 17             | 7.5             | 13             | 5.5             | 45          | 210   | 55       | ACS880-01F-017A-3+SMM           | 24V4.5W   |                                   |
| 11              | 25         | 30             | 24             | 11              | 17             | 7.5             | 45          | 325   | 60       | ACS880-01G-025A-3+SMM           | 24V4.5W   |                                   |
| 15              | 32         | 42             | 32             | 15              | 25             | 11              | 57          | 500   | 100      | ACS880-01H-032A-3+SMM           | 24V4.5W   |                                   |
| 18.5            | 38         | 54             | 37             | 18.5            | 32             | 15              | 57          | 550   | 125      | ACS880-01J-035A-3+SMM           | 24V4.5W   |                                   |
| 22              | 45         | 64             | 45             | 22              | 38             | 18.5            | 57          | 600   | 145      | ACS880-01K-045A-3+SMM           | 24V4.5W   |                                   |
| 30              | 61         | 78             | 58             | 30              | 45             | 22              | 59          | 890   | 200      | ACS880-01N-061A-3+SMM           | 24V5.5W   |                                   |
| 37              | 72         | 104            | 71             | 37              | 61             | 30              | 59          | 1514  | 250      | ACS880-01P-072A-3+SMM           | 24V5.5W   | U2<br>(132-180-<br>H400<br>D3200) |
| 45              | 87         | 122            | 85             | 45              | 75             | 37              | 59          | 1540  | 290      | ACS880-01R-087A-3+SMM           | 24V5.5W   |                                   |
| 55              | 115        | 148            | 110            | 55              | 91             | 45              | 59          | 1250  | 320      | ACS880-022-105A-3+SMM           | 24V6.5W   |                                   |
| 75              | 145        | 179            | 143            | 75              | 112            | 55              | 59          | 1440  | 380      | ACS880-023-145A-3+SMM           | 24V6.5W   |                                   |
| 90              | 182        | 247            | 178            | 90              | 150            | 75              | 67          | 1940  | 400      | ACS880-024-180A-3+SMM           | 24V6.5W   |                                   |
| 110             | 226        | 287            | 212            | 110             | 184            | 90              | 67          | 2200  | 550      | ACS880-026-205A-3+SMM           | 24V7.5W   | U3<br>(180-220-<br>H400<br>D3200) |
| 132             | 248        | 350            | 241            | 132             | 225            | 110             | 67          | 3300  | 650      | ACS880-027-245A-3+SMM           | 24V7.5W   |                                   |
| 160             | 293        | 438            | 293            | 160             | 266            | 132             | 68          | 3850  | 680      | ACS880-029-293A-3+SMM           | 220V1A  |                                   |
| 200             | 363        | 498            | 350            | 200             | 330            | 160             | 68          | 4100  | 700      | ACS880-029-363A-3+SMM           | 220V1A  |                                   |
| 250             | 487        | 545            | 450            | 250             | 387            | 200             | 68          | 4800  | 720      | ACS880-029-487A-3+SMM           | 220V1A  |                                   |
| 280             | 546        | 628            | 526            | 280             | 480            | 250             | 68          | 5100  | 950      | ACS880-032-546A-3+SMM           | 220V2A  |                                   |
| 315             | 624        | 718            | 615            | 315             | 546            | 280             | 68          | 5780  | 1100     | ACS880-034-624A-3+SMM           | 220V2A  |                                   |
| 400             | 790        | 874            | 727            | 400             | 548            | 315             | 68          | 6250  | 1200     | ACS880-035-790A-3+SMM           | 220V2A  |                                   |
| 450             | 865        | 1080           | 800            | 450             | 675            | 355             | 68          | 7800  | 1350     | ACS880-036-865A-3+SMM           | 220V2A  |                                   |
| 560             | 1050       | 1265           | 1000           | 560             | 878            | 450             | 68          | 8625  | 1550     | ACS880-037-1050A-3+SMM          | 220V2A  | R8<br>(180-245*<br>H400<br>D5000) |
| 630             | 1140       | 1482           | 1072           | 630             | 975            | 500             | 68          | 9430  | 3000     | ACS880-032-1140A-3+SMM          | 220V3A  |                                   |
| 710             | 1250       | 1630           | 1200           | 710             | 1070           | 560             | 68          | 10550 | 3400     | ACS880-032-1250A-3+SMM          | 220V3A  |                                   |
| 800             | 1480       | 1830           | 1421           | 800             | 1170           | 630             | 72          | 14800 | 3800     | ACS880-034-1480A-3+SMM          | 220V3A  |                                   |
| 1000            | 1750       | 2120           | 1580           | 1000            | 1315           | 800             | 74          | 17500 | 4200     | ACS880-035-1750A-3+SMM          | 220V3A  |                                   |
| 1200            | 2210       | 2880           | 2122           | 1200            | 1653           | 900             | 75          | 30700 | 5200     | ACS880-036-2210A-3+FSMM+PFCU+PL | 3xR8  |                                   |
| 1400            | 2610       | 3140           | 2506           | 1400            | 1952           | 1000            | 76          | 35000 | 5200     | ACS880-037-2610A-3+FSMM+PFCU+PL | 3xR8  |                                   |
| 1600            | 3450       | 4140           | 3312           | 1600            | 2581           | 1400            | 76          | 37000 | 6100     | ACS880-037-3450A-3+FSMM+PFCU+PL | 4xR8  |                                   |
| 2400            | 4200       | 5150           | 4118           | 2400            | 3209           | 1800            | 77          | 48000 | 6200     | ACS880-038-4200A-3+FSMM+PFCU+PL | 3xR9  |                                   |
| 2800            | 5130       | 6160           | 4925           | 2800            | 3837           | 2000            | 78          | 57000 | 7300     | ACS880-039-5130A-3+FSMM+PFCU+PL | 4xR9  |                                   |

Three-phase input  $U_n = 690V(525-690V)$  The rated power is valid when the voltage is 690V (45-132-630-4000kW)

|      |      |      |      |      |      |      |    |       |      |                                 |         |                                   |
|------|------|------|------|------|------|------|----|-------|------|---------------------------------|---------|-----------------------------------|
| 45   | 49   | 71   | 47   | 45   | 42   | 37   | 59 | 1120  | 290  | ACS880-032-560A-6+SMM           | 24V6.5W | U3<br>(180-220-<br>H400<br>D3200) |
| 55   | 61   | 934  | 58   | 55   | 49   | 45   | 59 | 1295  | 320  | ACS880-033-561A-6+SMM           | 24V6.5W |                                   |
| 75   | 84   | 124  | 80   | 75   | 61   | 55   | 59 | 1440  | 380  | ACS880-034-800A-6+SMM           | 24V6.5W |                                   |
| 90   | 98   | 168  | 93   | 90   | 84   | 75   | 67 | 1940  | 400  | ACS880-035-205A-6+SMM           | 24V6.5W |                                   |
| 110  | 119  | 208  | 113  | 110  | 98   | 90   | 67 | 2315  | 550  | ACS880-036-110A-6+SMM           | 24V6.5W |                                   |
| 132  | 142  | 270  | 135  | 132  | 119  | 110  | 67 | 3300  | 650  | ACS880-037-142A-6+SMM           | 24V6.5W |                                   |
| 160  | 174  | 374  | 165  | 160  | 142  | 132  | 68 | 3920  | 680  | ACS880-029-175A-6+SMM           | 220V1A  |                                   |
| 200  | 210  | 384  | 200  | 200  | 174  | 160  | 68 | 4820  | 700  | ACS880-029-210A-6+SMM           | 220V1A  |                                   |
| 250  | 271  | 411  | 257  | 250  | 210  | 200  | 68 | 6000  | 720  | ACS880-029-271A-6+SMM           | 220V1A  |                                   |
| 280  | 300  | 450  | 290  | 280  | 268  | 250  | 68 | 5800  | 950  | ACS880-032-295A-6+SMM           | 220V2A  | R8<br>(180-245*<br>H400<br>D5000) |
| 315  | 330  | 480  | 320  | 315  | 295  | 280  | 68 | 6120  | 1100 | ACS880-032-325A-6+SMM           | 220V2A  |                                   |
| 355  | 375  | 520  | 360  | 355  | 325  | 315  | 68 | 6800  | 1200 | ACS880-034-360A-6+SMM           | 220V2A  |                                   |
| 400  | 430  | 520  | 420  | 400  | 415  | 355  | 68 | 7000  | 1350 | ACS880-035-420A-6+SMM           | 220V2A  |                                   |
| 450  | 470  | 555  | 450  | 450  | 450  | 400  | 72 | 7200  | 1300 | ACS880-036-450A-6+SMM           | 220V2A  |                                   |
| 500  | 523  | 655  | 500  | 500  | 505  | 450  | 72 | 8000  | 1350 | ACS880-037-505A-6+SMM           | 220V2A  |                                   |
| 560  | 590  | 800  | 570  | 560  | 575  | 500  | 72 | 9000  | 1450 | ACS880-038-571A-6+SMM           | 220V2A  |                                   |
| 630  | 600  | 1000 | 768  | 710  | 578  | 560  | 75 | 11500 | 1670 | ACS880-032-721A-6+SMM           | 220V3A  |                                   |
| 1000 | 1000 | 1550 | 980  | 900  | 768  | 710  | 75 | 14200 | 1850 | ACS880-034-1000A-6+SMM          | 220V3A  |                                   |
| 1100 | 1170 | 1780 | 1123 | 1000 | 980  | 800  | 75 | 16000 | 1950 | ACS880-035-1100A-6+SMM          | 220V3A  |                                   |
| 1400 | 1540 | 2330 | 1478 | 1400 | 1123 | 1100 | 76 | 19500 | 2150 | ACS880-036-1540A-6+FSMM+PFCU+PL | 3xR8    | R9<br>(180-270<br>H400<br>D5200)  |
| 1600 | 1740 | 2810 | 1670 | 1600 | 1478 | 1200 | 76 | 22400 | 2340 | ACS880-038-1740A-6+FSMM+PFCU+PL | 3xR8    |                                   |
| 2000 | 2300 | 3450 | 2208 | 2000 | 1878 | 1600 | 77 | 32100 | 2870 | ACS880-039-2300A-6+FSMM+PFCU+PL | 4xR8    |                                   |
| 2400 | 2860 | 4290 | 2768 | 2400 | 2308 | 2000 | 77 | 40800 | 3150 | ACS880-039-2860A-6+FSMM+PFCU+PL | 3xR9    |                                   |
| 3200 | 3420 | 5130 | 3283 | 3200 | 3146 | 2400 | 77 | 48700 | 3650 | ACS880-039-3420A-6+FSMM+PFCU+PL | 3xR9    |                                   |
| 4000 | 4100 | 6230 | 4000 | 4000 | 3283 | 3200 | 78 | 52600 | 4580 | ACS880-039-4100A-6+FSMM+PFCU+PL | 4xR9    |                                   |

\* Select according to the rated and peak load current

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**J Elliott**



### **Ite Circuit Breaker Cross Reference:**

ASTIA Guidelines for Cataloging and Abstracting Defense Documentation Center (U.S.),1962      Electrical Engineer,1898      **Labor Relations Reference Manual** ,1945      **The Electrical Engineer** ,1898      **Railway Electrical Engineer** ,1928      **Industrial-commercial Electrical Reference** Edwin Stoddard Lincoln,1952      **Electrical Record and Buyer's Reference** ,1912      **Labor Relations Reference Manual - The Law and the Facts of Labor Relations vol. 12** ,1945      Electrical Construction and Maintenance ,1988      **Canadian Metalworking** ,1962      The National Engineer ,1913      *The Electrical World and Engineer* ,1902      Environment Abstracts Annual ,1986 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters      **Electrical World** ,1905      New York State Contract Reporter ,1992-11-02      **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960      *Code of Federal Regulations* ,1996 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of July with ancillaries      *The American Institute of Architects Legal Citator* American Institute of Architects,2009      *Journal of Electricity, Power, and Gas* ,1900      *Thomas Register of American Manufacturers and Thomas Register Catalog File* ,1960 Vols for 1970 71 includes manufacturers catalogs

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