

## **Load Sheet**

Completely fill out this form otherwise this will delay your project National Grid uses the provided loads to design & construct the requested electrical system

### WORK REQUEST #

### **Customer Information**

COMPANY NAME	CONTACT NAME	
MAILING ADDRESS		
SERVICE ADDRESS		
TELEPHONE #	E-MAIL	
ELECTRICIAN NAME	TELEPHONE #	

### Load Information

Fill section below with new load for any 3ph service or 1ph greater than 200 amps For each line below provide connected load in Total kW or HP (do not duplicate) Note: If there are multiple buildings, please submit a separate Load Sheet for each.

SERVICE SIZE \_\_\_\_\_ amps \_\_\_\_\_\_ volts \_\_\_\_\_ phase

### SQUARE FOOTAGE\*

Equipment Type	kW			Usage
INSIDE LIGHTING		f	or	hrs/year
OUTSIDE LIGHTING		for		hrs/year
ELECTRIC HEATING		f	or	hrs/year
AIR CONDITIONING		f	or	hrs/year
WATER HEATING		f	or	hrs/year
REFRIGERATION		f	or	hrs/year
Additional Equipment	kW	# of Units		Usage
			for	hrs/year
Motors**	HP	# of Units		Usage
			for	hrs/year
Total Connected Load		kW	]	

Total Diversified Load

\*Square Footage is required to size service correctly \*\*Complete next page w/ NEMA code for <u>3 ph motors >15 HP</u> & <u>1 ph motors > 5 HP</u>

**Job Description** 

kW

# nationalgrid

## **Motor Data Sheet**

**Completely** fill out and submit this form for <u>each</u> new motor either 3ph > 15 HP or 1ph > 5 HP If this data is not provided this will **delay** your project

### **MOTOR DATA**

Largest		Use											
ŀ	ŀΡ												
Rated Volt		Phase	Site I	nstallation	Rated P.F. Locked Rotor Code Letter				Start Under Load?				
v	Ľ	]1 ]3	🗌 New	🗌 In use					🗌 Yes		🗌 No		
				МОТО	OR OPERATIO	<b>DN</b>							
Type of Use					Peak Use								
Permanent		Seasonal 🗌 Temp 🔲 Summer 🗌 Winter 🗌 Day 🗌 Night 🗌 Other:											
Starts/Unit		Dip	s/Unit		Starter if Used								
per			per	🗌 Auto	🗌 Manual	□ 80	0% Tap	□ 65% T	ар	🗌 Oth	er:		
Applied Volt		Re	marks/Fur	ther Descriptio	n of operation,	motor	starting or	<sup>r</sup> in-rush cur	rent	surges			
v													

### WELDER DATA

Largest					Used for					
k/o mov input	when and term are show	toirouitod								
Rotad Bri Valt	Phone		notallation							
naleu FII VOIL	Flide	Sile installation			naleu F.F.					
v	1 3	🗌 New	🗌 In U	se		🗌 Yes	🗌 No			
		WEI	DER OPE	RATIO	N					
Type of U	se			Peak Use						
🗌 Permanent 🛛 🗌 Sea	sonal 🗌 Temp	🗌 Summe	🗌 Summer 🔄 Winter 🗌 Day 🗌 Night 🗌 Other:							
Welds/Unit	Length o	of Use	Use Basic Operational Use							
per		per weld	🗌 Proc	duction	Intermittent	Occasional	Other			
Applied Volt Duty Cycle					Remarks/Further Description					
v	% @	kVa	a							

### **CUSTOMER OPERATING LIMITATION**

The % of regulati	of	to	starts/welds	per	or a rang	e of	to		dips pe	ris:	
		Starts	Starts/Welds				Dips				
	ALLOWED	CALCUL	ATED	ALLOWED		CALCULATED LIMITATION REQUIRED				ED	
STATION	%		%		%	9	6	AMPS (	0		VOLTS
FEEDER	%		%		%	9	6	AMPS (	0		VOLTS
CUSTOMER	%		%		%	9	6	AMPS (	0		VOLTS
CUSTOMER OPERATING LIMITATION Check here if additional motor data attached											
An inrush limitation ofAMPS @V shall apply to this customer. This limitation shall apply to the starting of one or more motors, and/or the operation of one or more welders simultaneously. The customer will be responsible for remedial measures should the operation of the motors or welders create disturbances to other customers.											

Notes: Momentary fluctuation of the circuit voltage occurs each time a motor is started on the circuit. Where this affect is pronounced, the Customer or other customers served from the same system may observe a visual disturbance or lighting flicker. To suppress objectionable voltage variations and maintain proper service to the Customer and their neighbors, it is necessary to set a maximum permissible limit to the current draw from the service during each step of a motor-starting operation based upon the frequency of starts. These limits are designed to cover typical cases and the company gives no warranty that particular conditions may not later require a change.

The specific motor-starting current limitations furnished by the company means the maximum allowable increase in current on the line side of the motor-starting device at any instant during the starting operation. This limitation does not restrict the total current that can be taken by the motor, but may require that this total be built up gradually, or in steps during starting. Where a step-type starter is used, an appreciable time must be allowed on each step and the current limitations apply to the group and the individual motors. The initiation of the individual motors are started as groups instead of individually, the current limitations apply to the group and not the individual motors.